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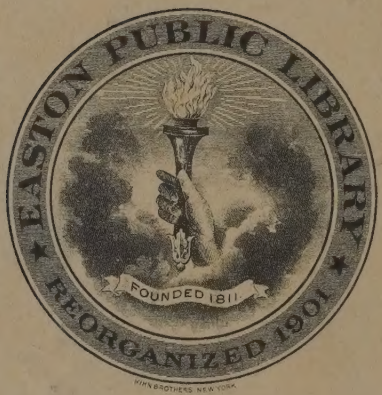

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HISTORY OF MANKIND

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BY

PROFESSOR FRIEDRICH RATZEL

TRANSLATED FROM THE SECOND GERMAN EDITION

BY

A. J. BUTLER, M.A.

WITH INTRODUCTION BY E. B. TYLOR, D.C.L., F.R.S.

WITH COLOURED PLATES, MAPS, AND ILLUSTRATIONS

VOLUME I

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INTRODUCTION

WHEN the first edition of Ratzel's *Völkerkunde* was published in 1885-88 it at once took its position as a guide-book to the study of Man and Civilization. To those beginning anthropological work it offered the indispensable outline sketches of the races of mankind, especially of the savage and barbaric peoples who display culture in its earlier stages, thus aiding the great modern nations to understand themselves, to weigh in a just balance their own merits and defects, and even in some measure to forecast from their own development the possibilities of the future. So good a judge as Professor Virchow wrote of the work on its first appearance, that since the time of Prichard and Waitz no such extensive attempt had been made to represent our knowledge of the lower races of mankind, immensely augmented as this has been by the researches of travellers, the exhibition of savages in Europe, and the information opened to the public by the great museums. The present English translation is from the second German edition of 1894-95, revised, and condensed from three to two volumes. Special mention must be made of the illustrations, 1160 in number, which in excellence surpass those which had hitherto come within the range of any work on Man intended for general circulation. These, be it observed, are no mere book-decorations, but a most important part of the apparatus for realising civilization in its successive stages. They offer, in a way which no verbal description can attain to, an introduction and guide to the use of the museum collections on which the Science of Man comes more and more to depend in working out the theory of human development. Works which combine this material presentation of culture with the best descriptions by observant travellers, promote most the great object of displaying mankind as related together in Nature through its very variation. The Rev. J. G. Wood's *Natural History of Man* and Dr. Robert Brown's *Races of Mankind* have in this way done much to promote anthropology. The bodily differences between races can only, it is true, be represented by descriptions and well-chosen portraits, minute physical classification belonging to a region only accessible to anatomists. The classification of peoples by their languages can only be illustrated by examples chosen from the grammar and dictionary, so as to make plain the conclusions of comparative philology without the elaborate detail of a linguistic treatise. But a fuller though less technical treatment of the culture-side of human life lies more readily open. The material

arts of war, subsistence, pleasure, the stages of knowledge, morals, religion, may be so brought to view that a compendium of them, as found among the ruder peoples, may serve not only as a lesson-book for the learner, but as a reference-book for the learned.

In our time there has come to the front a special study of human life through such object-lessons as are furnished by the specimens in museums. These things used to be little more than curiosities belonging to the life of barbarous tribes, itself beginning to be recognised as curious and never suspected of being instructive. Nowadays, it is better understood that they are material for the student "looking before and after." In the collections which enshrine them for perpetual knowledge, they fulfil in two different ways their illustration of the course of culture. In the way which is, and probably always must be, the more usual, all the objects which go to furnish the life of a people are grouped together, each group finding its proper level. Thus in the Ethnographic Galleries of the British Museum, the general condition or "altogether" (to use the useful old-fashioned term) of Australians, Polynesians, Negroes, Tartars, presents more or less definite groups of objects in which art and habit have fixed themselves at a consistent level. Where the rooting-stick appears among the Bushmen as a savage implement, we find in Africa an iron hoe (vol. i. pp. 88, 89). The South Sea Islander can sketch a rough map, and ingeniously ties together a little framework of sticks (see vol. i. p. 165) to serve as sailing directions on his voyages across the ocean; this bears no discreditable comparison to the compass and measured chart of civilized navigation. The group-pictures, which show not only the bodies but the conditions of a rude race, illustrate this stratification of culture in a suggestive if rough educational way. Here in the frontispiece of the first volume the Bushman leans against a rock, which also conveniently supports his knobkerry; in his hand is the pipe of antelope-horn for smoking hemp; one child is splitting a bone for marrow with a stone implement (which, however, does not belong to modern times), while another child carries a bull-roarer, as the Berlin street-boys did lately till the police stopped the whirling of this mystic toy; the wife carries ostrich-eggs in a net, and round her neck are teeth strung as charms, while her glass beads, made probably at Murano, show the beginnings of contact with the civilized world; the small bow with its quiver of poisoned arrows, and the water-skin which makes life possible in the thirsty desert, fills up the foreground of the picture. Among such rude tribes the simplicity of life is such that from a group like this, or the picture of a farm among the Igorotes of the Philippine Islands (Plate at p. 393), which shows these rude negritos engaged in their various occupations, something like a real representation of their life as a whole is possible. More advanced states of civilization become too complex for this to be any longer possible. Among barbaric and much more among civilized peoples, a mere trophy of ordinary weapons and utensils (*e.g.* Plate at p. 232) is enough to fill the picture, and life has to be divided into many departments to give even an idea of what useful and artistic objects belong to each. In ethnographic collections, where the

productions of a tribe or nation are grouped locally or nationally together, the student of culture has before him the record of similar human nature and circumstance working so uniformly as to present in each class of objects evident formative principles, developed in various degrees. He finds, or hopes by further research to find, in every such class courses of gradual invention resembling growth. Thus among the implements of different regions, the withe-bound stone hatchet of the Australian takes an early place in the series among whose later members are the bronze hatchet of Egypt and the steel axe of modern Europe. So among means of literary record, the picture-writing of the American Indian presents a lower form than the mingled pictures and phonetic symbols of ancient Egypt, which again lead on to alphabetic writing. At Oxford, the Pitt-Rivers Collection in the University Museum is devoted to the material evidence of the laws of development of art, custom, and belief, to investigate which by means of specimens brought together from all accessible regions and ages, and arranged in series according to their form and purpose, has been one of the lifelong labours of the founder. The working of such a method may in some degree be shown from the illustrations of the present work. The Damara bow, though no longer carried as a weapon, retains the purpose of a musical instrument which is gripped by the teeth and the tense bowstring struck with a stick; other tribes improve this primitive stringed instrument by fastening to the wood a hollow gourd or similar resonator to increase the sound, and from some such stage, by making the bow and resonator in one piece and stretching a series of strings across the bow, there arises the African harp, a typical form representing the primitive harp and lute forms of the world (illustrations of this will be given in the next volume). Not indeed that such progressive improvement is the sole rule, for degeneration is active also, as when low culture leads to inferior adaptation of a known type. It has been thought that the rude wooden crossbow of the Fans of the Gaboon (see vol. i. p. 86) represents an early rude stage in the development of the weapon, but it is on the contrary a feeble copy of the arbalest carried by the Portuguese of the sixteenth century, and thus interesting as an example of degeneration.

In a work whose value depends so largely on its illustrative pictures, decorative art must be conspicuous. It is well that it should be so, opening out, as it does, an important problem which we are obliged in great measure to deal with empirically from imperfect knowledge of its principles. Even practically, the civilized world has no exclusive possession of the secret of decorative art. There abound in our shops costly things made and sold for little other purpose than to be pretty, which are nevertheless unsatisfactory to the educated eye. On the other hand, savages or barbarians, though looked down upon as of low intelligence, produce objects which all must admit to show artistic taste. The reader will find proof sufficient of this in the pictures of carvings and mats from Papua and Polynesia (pp. 241, 244, 247, 249, 262). Now what is it that makes some lines beautiful, and one more beautiful than another? It will be said in answer that beauty of outline depends on boldness, firmness, and evident intention in drawing, which no doubt

is partly true, but some lines are stiff and ugly, some flowing and elegant, and again much stiff ornament is admirable, and flowing patterns may flow clumsily. We may respect Hogarth for attempting the problem of the line of beauty, for with fuller knowledge the moderns may succeed where he failed. The more types of tasteful ornamentation in varied styles can be stored in our minds the nearer will be the approach to its understanding. It is encouraging to consider what progress has been made of late toward solving not so much indeed the direct problem of decorative beauty, as the intermediate problem of the origin and meaning of ornament. The researches of General Pitt-Rivers on the gradual transformation of human figures into ornamental designs, and the derivation of coil, wave, and step patterns of cultured art from realistic representations of cords and plaitings, gave an impulse to this interesting study which has continued to be worked out in the museum bearing his name, with added series such as Mr. Everard im Thurn's pegals or baskets made by the natives of British Guiana, where the plaited pictures of birds and monkeys dwindle into graceful patterns, unmeaning unless their derivation is known. *The Evolution of Decorative Art* by Mr. Henry Balfour, the curator of the Pitt-Rivers Museum, should be known to all students taking up this attractive line of research. Dr. Ratzel, whose feeling for ornamental design is very definite, has reproduced many instructive objects, among which mention shall only be made here of the Sandwich Island calabash slung in a carrying-net, placed close by two other calabashes without nets, but appropriately decorated with patterns which, according to the island habit, are conventionalised pictures of the absent network (vol. i. p. 243). Such evidence goes far to abolish the old-fashioned idea that the patterns which have been the pleasure of ages were devised by ingenious artists out of their inner consciousness. Looking at them as originally derived from real objects, we see none the less how they develop into variety, so that, notwithstanding unity of principle, each tribe or district tends to form patterns of its own, which again being characteristic, are patriotically encouraged as local badges. Thus every Melanesian and Polynesian knows which island a mat or carving comes from, just as in Switzerland outlying villages are still known by their special embroidery. When one of these populations, savage or civilized, is destroyed or reformed into uniformity with the general fashion of the country, a local school vanishes, and even the examples of its productions disappear. So natural is this that it is a pleasant surprise when they come back sometimes from a hiding-place. It brought back to me such a memory when, in this book (vol. i. p. 256), I opened on the cut of the "covered vessel in shape of a bird, from the Pelew Islands." About 1880 I had chanced to go to the county parish of Holcombe Rogus in Devonshire to pay an afternoon visit to the vicar, Mr. Wills. A remark of mine as to a stone implement on the mantelpiece led to the unexpected remark that there were things upstairs from the Pelew Islands. When I protested that nothing from thence had come to England since the time when Captain Wilson brought over "Prince Lee Boo," whose sad story is told in the once familiar poem, it was

answered that the late Mrs. Wills was of Captain Wilson's family, and had inherited his curiosities. Before that, two generations of children had played havoc with them, but in the attic there were still the great bird-bowl and the inlaid wooden sword, and the rupak or bone bracelet, that prized ornament of chiefs, with other familiar objects figured in Keate's book. I represented that they ought to be in the national collection, and not long after, Mr. Wills, on his death-bed, ordered that they should be sent to me. They duly took their deserved places in the ethnographic department of the British Museum, where no doubt they will long outlast the amiable but hopelessly degenerate islanders, the picture of whose social decay has been drawn with such minute faithfulness by Kubary.

In understanding the likeness which pervades the culture of all mankind, the great difficulty is to disentangle the small part of art and custom which any people may have invented or adapted for themselves, from the large part which has been acquired by adopting from foreigners whatever was seen to suit their own circumstances. Original invention and modification of culture must take place somewhere, but to localise it in geography and chronology is so perplexing that anthropologists are fain to fall back, especially as to the more simple and primitive developments, on the view that they arose each in some one centre, or possibly more than one, thence propagating themselves over the world. Who shall say, for instance, where and by whom were begun the use of the club and spear which are found everywhere, and of the bow, which is found almost everywhere? The problem becomes more manageable as it passes to special varieties of these simple weapons, and to appliances which are more complex and elaborate. For though as yet no definite rule has been ascertained for distinguishing similar inventions which may have arisen separately, from the travelling of one invention from place to place, yet at any rate experience and history lead us to judge that the more complex, elaborate, and unfamiliar an art or institution is, the more right we have to consider that it was only devised once, and travelled from this its first home to wherever else it is found. History often helps us to follow these lines of movement which have spread civilization over the world, while on the other hand the tracing of the arts through the regions of the world is among the most important aids to early history. Thus in the case of the Bushmen already mentioned, mere inspection suggests that the glass beads which reach them through the traders are to be traced through an art history leading back through Phœnicia to Egypt, while the dakka-pipe is a record not of native African invention, but of the migration of the deleterious habit of hemp-smoking westward and southward probably from Central Asia. It is well for the student to cultivate the habit, of which this book will give many opportunities, of endeavouring to separate, in the inventory of life among any people, the products of native invention from the borrowed appliances of the foreigner. Thus in the war-dance of the Sioux, the guns and iron-headed tomahawks bartered from the white trader figure beside the more genuine drum and stone-headed club; and the swords and daggers of the African countries show at a glance

the influence of Asia which has spread with and beyond the range of the Moslem religion.

For the study of earlier stages of social life, and even of morals and religion, with their manifold bearing on the practical problems of modern life, there is no more useful preparation than familiarity with the modes in which material art and representation are developed and propagated. The same underlying human instinct, the same constancy of human faculty through low and high stages, the same pliability of life to the needs of outward circumstances, which precedes the cultured state where circumstances have to yield to the needs of man, the same adaptation of artificial means suggested by nature, the same copying by the whole tribe of the devices which individuals have started, and then their wider diffusion by one tribe copying from another—these actions go on throughout the human race, and the principles we learn from mere things may guide us in the study of men. The habit of constant recourse to actual objects is of inestimable use to us in the more abstract investigation of ideas. Its scope is limited; yet as we have to depend briefly on verbal description for our knowledge of the habits of distant and outlandish peoples, their social condition, their rules of right and wrong, their modes of government, and their ideas of religion, the sight of the material things among which such institutions are worked out gives a reality and sharpness of appreciation which add much to the meaning of words. The rude hut of Tierra del Fuego, inhabited by the natives occupied among their scanty appliances, brings the race before us in a framing to which we adjust, almost as travellers among them may do, our ideas of the life, morals, and religion of the isolated savage family. So the models or pictures of the huge village-houses of Malays or the higher American Indians enable the spectator to understand the social condition of the communities of grouped families, patriarchal or matriarchal, to which brotherhood and vengeance, communal agriculture and tribal war, naturally belong. Thus in every direction the material furniture of life, taken in its largest sense, gives clues to the understanding of institutions as tools do of the arts they belong to. The paraphernalia of birth, marriage, and death among the American Indians, the backboard of the papoose, the whip of the initiation ceremony, the beads and paint of the bride, the weapons and ornaments sacrificed for the use of the dead man's soul, tell in outline the story of their rude life. The great totem-system, which binds together in bonds of amity the tribes of the barbaric world, takes material shape in the pictured and sculptured animals which decorate the mats and the roof-posts of British Columbia with commemoration of the myths of divine ancestors. In half the countries of the world the conception of the soul and of deity is best to be learnt from the rude human figures or idols in which these spirits take their embodiment (see pp. 301 *sqq.*). To learn what the worshippers say and do to the idols, and what the indwelling spirits of the idols are considered to do to the worshippers, is to obtain a more positive knowledge of the native theology than is to be had from attempts to extract scholastic definitions from the vague though not unmeaning language of the savage priest.

It is especially because the present work comes under the class of popular illustrated books that it is desirable to point out that this does not detract from its educational value, but on the contrary makes it good for providing a solid foundation in anthropological study. To discuss the theoretical part, attacking or defending Professor Ratzel's views on the diffusion of the human species over the globe, the classification of mankind by race and language, and the geography of civilization, would be to go outside the purpose of this introduction. Still less is it the duty of the introducer to seek out errors. He has simply to recommend a foreign book, pointing out to what classes of readers, and for what purposes, it is likely to be useful. It should, however, be clearly understood that great as the progress of anthropology has been during the last half-century, yet, as in other subjects modern as to their scientific form and rank, the collection of the evidence has not yet approached completion, nor has the theory consolidated into dogmatic form. In the next century, to judge from its advance in the present, it will have largely attained to the realm of positive law, and its full use will then be acknowledged not only as interpreting the past history of mankind, but as even laying down the first stages of curves of movement which will describe and affect the courses of future opinions and institutions. This will be a gain to the systematising of human life and the arrangement of conduct on reasonable and scientific principles. It is true that such results may be accompanied by some dwindling of the adventurous interest which belongs to the early periods of a science, and possibly the anthropologists of the next century, rich in theoretical and practical knowledge shaped into law and rule, may look back to our days of laborious acquisition of evidence and enjoyment of new results with something of the regret felt by the denizen of a colonial town in looking back to the time when settled occupation was only beginning to encroach on the hunters' life in the wild land.

EDWARD B. TYLOR.

TRANSLATOR'S NOTE

Mr. James Payn has recently compared the translator's functions to those of the typewriter, and in many respects the comparison holds good. Both are expected, like little boys in the nursery code of etiquette, to be "seen and not heard"; that is to say, each is expected to reproduce, in his own medium, what is laid before him in another, and say nothing about it. However, the present translator, with some diffidence, craves leave for a moment to depart from this rule. One fault leads to another, and having on a few occasions in the body of the work ventured, as the merest outsider, to append an illustration drawn from his own reading or experience, in confirmation or otherwise of Professor Ratzel's views and statements, he is almost compelled to make himself "heard" once more, if only to deprecate reproof for what, now that he looks back on it, seems to have been an impudent intrusion into other people's domain. It appears to be held in many quarters at the present day that a man cannot know anything about a subject unless he knows nothing about any other; and the "expert" is perhaps justly intolerant of Margites.

On one other point a word of *apologia* must be said. A fashion has sprung up among the learned of spelling barbarous names according to a system of their own, made it would seem in Germany, but so far as can be judged from the present work, intended chiefly for English use. In this matter a distinction has to be made. In names "transliterated" from a language with old-established written symbols differing from our symbols, it may be necessary on philological grounds to adopt a conventional system of equating letter with letter, even at the risk of suggesting to the English reader a sound quite unlike that of the original word, or of breaking through an old tradition. It may be all right, for instance, to spell the name of a well-known cricketer so as at once to make the ordinary newspaper-reader pronounce his first syllable as if it rhymed to "man," and disguise the fact that he is namesake to the Lion of the Punjab. But in the case of names which till Europeans heard them never had occasion to be spelt, surely in a popular work it is best, whenever possible without great violation of custom, to give the form which most nearly conveys the *sound* from an English eye to an English ear. It would be pleasant indeed to write Otaheite and Owhyhee, stamped as they are with the seal of literature; but here we have surrendered to France, and it is hopeless to revive the old forms. In some cases, however, we

are still at liberty to consider our own countrymen. Why, for instance, write Tunguses, which nine Englishmen out of ten will rhyme to "funguses"; when by following our fathers and writing Tungooses we at least give some approximation to the right sound? Again, why write Shilluks for the people whom Gordon reasonably called Shillooks? Other nations would not hesitate. A German writes Schilluk; a Frenchman doubtless Chilouques; an Italian, Scilucchi; a Spaniard, if he ever needs to mention them, Xiluques. Why are Englishmen alone not to keep within their own "sphere of influence" in this matter? Forms like *tapu* and *tatu* may be all very well in scientific periodicals, but *taboo* and *tattoo* are the English words, and should be used in English books.

In conclusion, the translator has to express his best thanks to two experts, who have very kindly revised the proofs. Mr. Henry Balfour performed this most necessary office for the first two or three parts, and when he was incapacitated by illness for continuing the work, Mr. H. Ling Roth was good enough to come to the rescue. Thanks to his careful superintendence, it may be hoped that few errors remain in the text. He is *not* responsible for the spelling of names, nor for mistakes in the descriptions of the cuts—about some of which Professor Ratzel appears to have been misinformed. These will mostly be found corrected in the index.

CONTENTS

BOOK I

Principles of Ethnography

SECTION		PAGE
1.	The Task of Ethnography	3
2.	Situation, Aspect, and Numbers of the Human Race	5
3.	The Position of Natural Races among Mankind	14
4.	Nature, Rise, and Spread of Civilization	20
5.	Language	30
6.	Religion	38
7.	Science and Art	65
8.	Invention and Discovery	76
9.	Agriculture and Cattle-breeding	87
10.	Clothing and Ornament	93
11.	Habitations	106
12.	Family and Social Customs	114
13.	The State	129

BOOK II

The American-Pacific Group of Races

A.—The Races of Oceania

1.	General Survey of the Group	145
2.	The Races of the Pacific and their Migrations	155
3.	Physical Qualities and Intellectual Life of the Polynesians and Micronesians	185
4.	Dress, Weapons, and Implements of Polynesians and Micronesians	195
5.	The Negroid Races of the Pacific and Indian Oceans	214
6.	Dress and Weapons of the Melanesians	223
7.	Labour, Dwellings, and Food in Oceania	238
8.	The Family and the State in Oceania	267
9.	Religion in Oceania	300

B.—The Australians

10.	Australia	333
11.	Physical and Mental Character of the Australians	337
12.	Dress, Weapons, and other belongings of the Australians	349
13.	The Family and Society in Australia	365
14.	The Tasmanians	380
15.	Religion of the Australians	383

C.—Malays and Malagasies

16.	The Malay Archipelago	391
17.	Bodily Conformation and Intellectual Life of the Malays	393
18.	Dress, Weapons, and other Property of the Malays	405
19.	The Malay Family, Community, State	437
20.	The Malagasies	452
21.	The Religion of the Malays	467

NOTE.—In some cases the descriptions of Figures given in the following List will be found to differ from those which occur in the text. Where this is so the List may be taken as embodying corrections which will ultimately be made in the text.

ILLUSTRATIONS IN VOLUME I

MAP

MAP OF THE RACES OF OCEANIA AND AUSTRALASIA . . . . *To face page* 145

COLOURED PLATES

A BOSJESMAN FAMILY . . . . . *Frontispiece*
WEAPONS, UTENSILS, AND ORNAMENTS OF AMERICAN INDIANS . . . *To face page* 65
POLYNESIAN WEAPONS AND COSTUME . . . . . ,, 155
PATTERN OF POLYNESIAN TAPA. (From Cook's Collection in the Ethnographical Museum, Vienna) . . . . . ,, 195
WEAPONS AND UTENSILS FROM MELANESIA AND MICRONESIA . . . ,, 232
AN AUSTRALIAN FAMILY-PARTY FROM NEW SOUTH WALES . . . ,, 294
SOWEK; A PILE-VILLAGE ON THE NORTH COAST OF NEW GUINEA. (After Raffray) ,, 344
IGORROTE FARM IN LUZON (Philippines). (From a water-colour drawing by Dr. Hans Meyer) ,, 393
MALAY FABRICS AND WEAPONS . . . . . ,, 427

ILLUSTRATIONS IN TEXT

PAGE

Eskimo bow made of bones. (British Museum) 6
Fijian double canoe. (From a model in the Godeffroy Collection, Leipzig) 8
Sandili, king of the Gaikas; showing the Semitic type of the Kaffirs. (From a photograph by G. Fritsch) 13
A Galla monk: Hamitic or Semitic blend. (From a photograph in the collection of Pruner Bey) . 13
Young girl of the Mountain Damara tribe. (From a photograph belonging to the Barmen Mission) . 16
Steel Axe of European make with old bone handle, from New Zealand. (Christy Collection) . . 18
Ainu beside one of their store-huts. (From a photograph in the possession of Freiherr von Siebold, Vienna) 19
Ambuella Drum. (After Serpa Pinto) 21
Igórrote Drum from Luzon. (From the collection of Dr. Hans Meyer) 21
Queensland Aborigines. (From a photograph) 23
Indian Mirror from Texas. (Stockholm Ethnographical Museum) 29
Owner's marks: the upright column from the Ainu (after Von Siebold); the others, rudimentary writing from the Negroes of Lunda (after M. Buchner) 36
Melanesian sea spirit, from San Christoval. (After Codrington) 39
Fetish in Lunda: purpose unknown, perhaps to avert lightning. (After Buchner) . . . 42
Entrance to a fetish hut in Lunda. (After Buchner) 43
Wooden idol from the Niger. (Museum of the Church Missionary Society) 44
A mummy wrapped in clothing, from Ancon. (After Reiss and Stubel) 45
Idols from Hermit Island. (Ethnological Museum, Berlin) 46
Supposed idols representing souls, from Ubudjwa. (After Cameron) 46
Grave of a Zulu chief. (After G. Fritsch) 48

PA

Fish-headed idols from Easter Island. (Christy Collection) . . . . .
Magicians of the Loango Coast. (From a photograph by Dr. Falkenstein) . . .
Dice and amulets of a Bamangwato magician. (Ethnographical Museum at Munich) . . .
Masks from New Ireland—one-eighth of real size. (Berlin Museum of Ethnology) . . .
Cemetery and sacred tree in Mbinda. (After Stanley) . . . . . .
Boat-coffin from Timorlaut. (From a model in the Ethnographical Museum, Dresden) . .
Ornament on coco-nut shell, from Isabel in the Solomon Islands. (After Codrington) . . .
Piece of bamboo with carvings, from the New Hebrides. (After Codrington) . . .
Plaited hat of the Nootka Indians, showing eye-ornament. (Stockholm Ethnographical Museum) .
Carved clubs from Lunda. (Buchner collection in the Munich Ethnographical Museum) . .
Tobacco-pipe carved out of slate, from Queen Charlotte Islands, British Colombia. (Berlin Museum of Ethnology) . . . . . .
New Zealand tobacco-pipe. (Christy Collection) . . . . . .
Ornamental goblet from West Africa. (British Museum) . . . . . .
Chains made of walrus-teeth, from Aleutia. (City Museum, Frankfort O. M.) . . . .
Kaffir fire-sticks, for producing fire by friction—one-fourth real size. (Museum of the Berlin Mission)
Wooden shield with picture-writing, perhaps a chief's breast-plate, from Easter Island. (Christy Collection) . . . . . .
Human figure and *medusa* in walrus-ivory, from (?) Tahiti. (Vienna Ethnographical Museum) . .
Shell and bone fish-hooks from Oceania. The larger one on the right from the north-west coast of America. (Vienna Ethnographical Museum) . . . . . .
Weapons set with sharks' teeth, from the Gilbert Islands. (Munich Ethnographical Museum) . .
Monbuttu tobacco-pipe carved in wood and ornamented with copper wire—one-tenth real size. (Christy Collection) . . . . . .
Carved and painted figure from Dahomey. (Berlin Ethnographical Museum) . . . .
Zanza, a musical instrument used over a great part of Central and South Africa . . . .
Fan warrior with crossbow. (After Du Chaillu) . . . . . .
Stick used by Bushmen in digging roots, and stone weights for the same. (Berlin Museum of Ethnology)
Loango negress at field-work. (From a photograph by Dr. Falkenstein) . . . . .
Iron hoe from Kordofan. The blade is also used as currency—one-eighth real size. (Christy Collection)
Axe of turtle-bone. A label pasted on this, in writing of the time of Captain Cook, describes it as from the Friendly Islands. (British Museum) . . . . . .
Woman of the Azandeh, or Nyam-Nyams. (From a photograph by Richard Buchta) . . .
Princess of Unyoro, dressed in bark-cloth. From a photograph by Richard Buchta) . . .
Village chief of the Loango, with wife and dignitary. (From a photograph by Dr. Falkenstein) .
Cap made of a palm-spathe, from Brazil. (Munich Ethnographical Museum) . . . .
Bawenda children belonging to a mission school. (From a photograph in the possession of Dr. Wangemann, Berlin) . . . . . .
Fur and bird-skin clothing of the Ainu. (Collection of Baron von Siebold, Vienna) . . .
Woman of New South Wales. (From a photograph in the possession of Lieutenant von Bulow, Berlin)
Leg ornaments of dogs' teeth, and shell armlet, from Hawaii. (Vienna Ethnographical Museum) .
Sandal from Unyoro. (After Baker) . . . . . .
1, 2, Stone lip-plugs; 3, 6, necklaces; 4, armlet, worn by the Jur tribes; 5, armlet; 7, head-dress of the Shulis. (Vienna Ethnographical Museum) . . . . . .
Irenga arm-ring, with sheath—one-fourth real size. (Vienna Ethnographical Museum) . . .
1. Paddle-shaped clubs, probably from Fiji; and carved adzes, as carried by chiefs, from the Hervey Islands (Munich Ethnographical Museum). 2. Dagger for attaching to the upper arm, from Lagos (Christy Collection, London) . . . . . .
Modes of hairdressing, Lovale. (After Cameron) . . . . . .
West African body-tattooing. (From a drawing by Péchuel-Loesche) . . . . .
West African mode of filing the teeth. (From a drawing by the same) . . . . .
1. Tortoise-shell combs from Pelew—one-half real size (Kubary Collection, Berlin). 2. Azandeh or Nyam-Nyam shield—one-tenth real size (Vienna Ethnographical Museum) . . .
Caves of the Bushmen. (After Fritsch) . . . . . .
Tree-dwellings in South India. (After Jagor) . . . . . .
Fishing village on the Mekong. (From a photograph) . . . . . .
The so-called "Dwarf's House" at Chichen-Itza. (After Charnay) . . . . .
House in Central Sumatra. (After Veth) . . . . . .
Village on a tongue of land, Lake Tanganyika. (After Cameron) . . . . .
A Zulu family. (From a photograph in the possession of Dr. Wangemann) . . . . .
Interior of a house in Korido, New Guinea. (After Raffray) . . . . . .
Ashantee drinking cups of human skulls. (British Museum) . . . . .

PAGE
Human bone in the fork of a branch; a cannibal memento from Fiji. (Leipzig Museum of Ethnology) 129
Zulu chief in full war-dress. (From a photograph in the possession of Dr. Wangemann) . . 130
The Basuto chief Secocoeni with his court. (From a photograph in the possession of Dr. Wangemann) 132
A Dakota chief. (From a photograph) 133
Articles belonging to Dyak head-hunters:—1. Shield ornamented with human hair; 2. Sword and knife; 3. Skull with engraved ornament and metal plate; 4. Basket to hold a skull. 1 and 2 probably from Kutei; 3 and 4 from W. Borneo. (Munich Museum) 135
Kingsmill Islander in full armour. (Berlin Museum of Ethnology) 137
Lango chief and magician. (From a photograph by Richard Buchta) 138
Insignia, ornamental weapons, and drums from the Southern Congo territory 139
Polynesian clubs and insignia of rank . . . . . *facing* 145
Araucanian man and woman. (From a photograph) 146
Bakairi girl from the Kulishu river. (After Dr. R. von den Steinen) 148
Maori girl. (From photograph in the possession of Dr. Max Buchner) 149
Men of Ponapé in the Carolines. (From a photograph in the Godeffroy Album) . . . 150
Boy of New Ireland. (From a photograph) 151
Man of New South Wales. (From a photograph) 152
Dyak woman of Borneo. (From a photograph in the Damann Album) 153
Bread-fruit true (*Artocarpus incisus*): (*a*) inflorescence, (*b*) fruit 156
Taro (*Caladium esculentum*)—one-half natural size 157
Sepulchral monument in Ponapé, Caroline Islands. (From a photograph in the Godeffroy Album) . 160
Outrigged boat, New Britain. (From a model in the Godeffroy Collection, Leipzig) . . . 161
Boat of the Mortlock Islands, with outrigger and sail of rush-matting. (After a model in the Godeffroy Collection) 162
Boat of Niue, Savage Islands. (After a model in the Godeffroy Collection) 163
Boat of the Hermit Islands. (From the same) 163
Wooden baler, New Zealand—one-sixth real size. (British Museum) 164
Wooden baler, New Zealand—one-fifth real size. (British Museum) 164
Wooden baler, New Guinea—one-fifth real size. (British Museum) 165
Stick chart from the Marshall Islands. (Godeffroy Collection) 165
Boat of the Luzon Tagals. (From a model in Dr. Hans Meyer's Collection, Leipzig) . . . 169
Sumatran *prahu*. (From a model in the Munich Ethnographical Museum) 170
Carved boat from New Zealand; actual length 8 ft. 2 in. (Berlin Museum of Ethnology) . . 175
1. God of dances, in the form of a double paddle, Easter Island; 2. Toothed club from Tutuila; 3. Ancient club from Tonga; 4, 5. Short clubs from Easter Island. (Berlin Museum of Ethnology) 176
Thakombau, the last king of Fiji. (From a photograph in the possession of Herr Max Buchner) . 177
Rattan cuirass, throwing-sticks of dark wood, and bark belt, from Kaiser Wilhelm's Land. (Berlin Museum) 181
Axes from the D'Entrecasteaux Islands—one-eighth real size. (Christy Collection) . . . 182
Carved wooden plaques, used as stamps, from the Fiji Islands. (Godeffroy Collection) . . 183
Jade battle-axes and jade hatchet, insignia of chiefs, from New Caledonia. (Christy Collection) . 184
Samoan woman. (From a photograph in the Godeffroy Album) 186
Women of the Gilbert Islands and Marshall Islands. (Godeffroy Album) 187
A Tongan. (Godeffroy Album) 188
A man of Rotuma. (Godeffroy Album) 188
A man of Pelew, and a man of Yap in the Carolines. (Godeffroy Album) 189
Dressed skull, from the Marshall Islands. (Godeffroy Collection) 190
Bamboo flutes from Tahiti and Hawaii. (British Museum) 191
Dancing stilts, from the Marquesas. (Munich Ethnographical Museum) 192
1. Paddles used at dances, from Easter Island—one-thirteenth real size (Berlin Museum of Ethnology). 2. Wooden dancing-stilts, from the Marquesas—one-tenth real size (Christy Collection) . . 193
Tattooed Maoris. (From a photograph in the possession of Herr Max Buchner) . . . 196
Tattooing instruments from the Friendly Islands—one-third real size. (British Museum) . . 197
A man of Ponapé in the Carolines. (From a photograph in the Godeffroy Album) . . . 198
Breastplate of shell with sling of human hair—one-fourth real size. (Christy Collection) . . 199
1. Woman of Ponapé. 2. Woman of the Paumotu Islands. (From photograph in the Godeffroy Album). 3. Women of the Society Islands. (From photograph in the Damann Album) . . . 200
Samoan lady with hair dressed high. (From the Godeffroy Album) 201
Man of the Ruk Islands. (From the Godeffroy Album) 203
Combs from Tonga—one-fourth real size. (British Museum) 203
Bone comb from New Zealand—one-third real size. (British Museum) 203

PAGE

Man of the Ruk Islands. (From the Godeffroy Album) 204
Coco and Sago Palms 205
Obsidian axes from Easter Island—one-third real size. (British Museum) 207
Polynesian implements: 1. Axe from Hawaii—one-sixth real size. 2. Adze with carved helve, probably from Hervey Group or Paumotu Islands. 3, 4. Hatchets from the Marquesas and Society Islands—one-sixth real size. 5. Obsidian spear-head from Easter Island—one-third real size. 6. Weapon or implement from Hawaii—one-fourth real size. (1, 3, 4, 6, Christy Collection; 2, 5, British Museum) 208
Maori chief's staff and walking-sticks—one-eighth real size. (Christy Collection) . . . 209
1. Quiver and arrow, said to be from the Society Islands—one-eighth real size (Christy Collection.) 2. Pin used in weaving, from New Zealand—two-sevenths real size (British Museum). 3. Spear set with sharks' teeth, from the Gilbert Islands—one-fifteenth real size (Munich Ethnographical Museum). 4. Saw, said to be used also as dagger, of ray-spine, from Pelew—one-third real size (Berlin Museum) 210
1. Wooden swords from Pelew Islands—one-fifth real size (British Museum). 2. Bow and arrow from the Friendly Islands—one-third real size (Christy Collection). 3. Saw of ray-spine, said to be from Pelew—one-third real size (British Museum.) 4. Bone arrow-head—real size (Christy Collection) 211
Hawaiian wicker-work helmet—one-fourth real size. (Berlin Museum) 212
Small weapons with sharks' teeth from Tonga, dagger and baler from Hawaii, and gourd bottle from New Caledonia. (Vienna Museum.) 212
(1-3) Necklaces of shell and beans, with limpet-shells. (4 and 5) Ear-pendants, with dolphin's teeth. (6 and 7) Ear-buttons of whale's tooth. (8) Necklace of tortoise-shell. (9) Neck ornament. (10) Necklace. (11) Wooden fillet for the head. (12) Ear-button made of a ray's vertebra. (13, 14) Armlets of black wood and whale's tooth. (15) Neck ornament. (16) Necklace of shell-disks and whale's tooth. (1-7, Marquesas; 8 and 15, Friendly Islands; 9, Hervey Islands; 10, 11, Society Islands; 12, Easter Island; 13, 14, Hawaii; 16, Nukuor.) 214
New Guinea girl. (From a photograph in the possession of Herr W. Joost, Berlin) . . . 215
Man of New Ireland. (From the Godeffroy Album) 216
Fijian lady. (From Godeffroy Album) 217
Fijian gentleman. (From Godeffroy Album) 218
Woman of the Anchorites Islands. (From the Godeffroy Album) 219
Woman of the Anchorites Islands. (From the Godeffroy Album) 220
Musical instrument from New Ireland—one-third real size. (Godeffroy Collection, Leipzig) . . 221
1. Spatula for betel-lime from New Guinea—one-half real size. 2. Drum from Pigville in New Guinea—one-eighth real size (Christy Collection). 3. Drums from Ambrym in the New Hebrides (after Codrington) 222
Carved coco-nut from New Guinea—one-half real size. (Christy Collection) 223
New Hebridean ornament (enlarged) 223
Bit of etched design on a coco-nut, from Isabel Island in the Solomons. (After Codrington) . . 223
Wigs of human hair worn in battle, from Vanna Levu. (Frankfort City Museum) . . . 224
Head-dress like an eye-shade from New Guinea—one-fifth real size. (British Museum) . . 224
Fiji warrior in a wig. (From the Godeffroy Album) 225
Nose-ornament, breastplate, and arm-ring of boar's tusks, from New Guinea—one-eighth real size. (Christy Collection) 226
Shell plaques for adorning the breast and forehead. (Christy Collection) 227
Weapons from the Admiralty Islands. (Christy Collection) 230
New Caledonian clubs and a painted dance club from the New Hebrides. (Vienna Museum) . . 231
1. Bow from the Solomon Islands (Berlin Museum). 2. Bow and arrows from North-west New Guinea—one-tenth real size (Christy Collection). 3. Arrow-heads from the Solomon Islands (Godeffroy Collection, Leipzig) 232
Dagger of cassowary bone, from North-west New Guinea—one-fourth real size. (Christy Collection) . 233
1. Carved dance-shield from East New Guinea—one-fifth real size. 2. Shield from Teste in New Guinea—one-tenth real size. (Christy Collection) 234
1. Wooden shield, bound with plaited rattan, with black and white pattern, from Friedrich-Wilhelm's Harbour. 2. Carved shield from Hatzfeld Harbour. 3. Wooden battle-shield from Astrolabe Bay. 4. Wooden battle-shield from Trobriand. 5. Motu-motu shield from Freshwater Bay—one-twelfth real size. (Berlin Museum of Ethnology) 235
Wooden dish from Hawaii. (British Museum) 236
Mats from Tongatabu. (Vienna Ethnographical Museum) 237
Stone pestles from Hawaii—one-fourth real size. (Cook Collection, Vienna Museum) . . . 240
Earthenware vessels from the Fiji Islands. (Godeffroy Collection, Leipzig) 241

PAGE
Carved spatulas for betel-lime from Eastern New Guinea—two-sevenths real size. (Christy Collection) 241
Utensils from Hawaii (Arning Collection, Berlin Museum): 1. Calabash-carrier of coco-nut fibre. 2, 3. Calabashes with pattern burnt in, stoppered with *conus* shells. 4. Beaters of *kauila* wood. 5. Stamping sticks for *tapa*. 6. Oil lamps of lava. 7. Decoration for chiefs, a sling of human hair with carved cachalot's tooth. 8. Necklace of similar teeth from Fiji. 9-12. Straw plaiting, probably a modern importation. 1-8, one-fifth to one-sixth; 9-12, one-half real size . . 242
Wickerwork (basket, pouches, and fly-whisk), from Tongatabu. (Cook Collection, Vienna Ethnographic Museum) 244
Polynesian fan and fly-whisks, insignia of chiefs, probably from Tongatabu. (Cook Collection) . 245
Wicker fans probably from Samoa. (British Museum) 247
Wooden bowl for food, from the Admiralty Islands—one-eighth real size. (Christy Collection) . 248
1. Bamboo water-vessels from New Guinea—one-third real size. 2. Carved gourd used for betel-box, from the Trobriand Islands—one-third real size. (Christy Collection) 249
Carved bamboo box from Western New Guinea—three-fourths real size. (Christy Collection) . . 250
Chisel and shell auger, from New Britain. (Berlin Museum) 251
1. Fishing trimmer from the Solomon Islands—one-eighth real size (Christy Collection). 2. Floats, sinkers, baler, and war-spears, from New Caledonia (Vienna Museum) 252
A New Zealand trawl-net. (Munich Ethnographical Museum) 253
Shark-trap with wooden float from Fiji. (Berlin Museum) 254
Smoked fish from Massilia in East New Guinea—one-sixth real size. (Berlin Museum) . . . 254
Cuttle-fish baits from the Society Islands—two-fifths real size. (Christy Collection and Berlin Museum) 255
Pots and implements (the two calabashes for betel-lime) from the Admiralty Islands, also a shell horn—one-fifth real size. (Christy Collection) 255
Covered vessel in shape of a bird, inlaid with shell, from the Pelew Islands. (British Museum) . 256
Another vessel of the same material. (British Museum) 257
New Caledonian hut (Qu. sacred) after a model; doorposts and roof-ornament supplied from originals in the Berlin Museum 260
Roof-ornaments and shoring-props from New Caledonia. (Vienna Museum) 261
Mats from Tongatabu. (Cook Collection, Vienna) 262
House in the Arfak village of Memiwa, New Guinea. (After Raffray) 263
Stool from Dorey in New Guinea—one-seventh real size. (Christy Collection) 264
New Caledonian head-stools. (Vienna Museum) 264
Carved and painted rafters from common halls (*bais*) in Ruk. (Godeffroy Collection, Leipzig) . . 265
1. Gourd bottle from the D'Entrecasteaux Islands—one-third real size. 2. Head-stool from Yap—one-fourth real size. (Finsch Collection, Berlin) 265
Chief's wife of Puapua, Samoa. (From a photograph in the Godeffroy Album) 268
Tongan ladies. (From the Godeffroy Album) 269
Old Tongan woman. (From the Godeffroy Album) 271
Princess Ruth of Hawaii. (From a photograph belonging to Professor Buchner, Munich) . . 272
Women of Ponapé in the Carolines. (From the Godeffroy Album) 273
A Tagal village: Luzon in the Philippines. (From a photograph) 275
Fly-whisk, from the Society Islands—one-sixth real size. (Christy Collection) 278
Fly-whisks (chief's insignia), from the Society Islands—one-fifth real size. (Christy Collection) . 279
Fly-whisk (insignia of a chief), from Samoa—one-eighth real size. (British Museum) . . . 280
Toy paddles, from New Zealand—one-sixth real size. (Christy Collection) 281
Chief of Tae in the Mortlocks. (Godeffroy Album) 282
"Kahile" or fly-flap, carried by the attendants of men of rank, from Hawaii. (Christy Collection) . 283
King Lunalilo of Hawaii. (From a photograph) 285
Samoan warrior in *tapa*-clothing. (From the Godeffroy Album) 286
Ear-button from the Marquesas and amulet from Tahiti—two-thirds real size. (Christy Collection) . 287
Warrior of the Solomon Islands. (From the Godeffroy Album) 288
Fijian warrior. (From the Godeffroy Album) 289
Coco-palm leaf, as a token of peace, from Venus Hook in New Guinea; and paddle-shaped spoon, eight feet in length, for stirring food at feasts, carved with a Maori design, from the Normanby Islands. (Finsch Collection, Berlin) 291
Sacrificial knife, available also as an instrument of torture, from Easter Island—one-half real size. (Berlin Museum) 296
Human lower jaw set as an arm-ring, from New Guinea. (Christy Collection) 297
Ancestral image (*Korvar*) from New Guinea—one-fourth real size. (British Museum) 301
A Fiji Islander. (From a photograph in the Godeffroy Album) 302
1. Sacred drum with carving from High Island, Austral Group—one-fourth real size (Christy Collection). 2. Stick calendar of the Ngati Ranki tribe in New Zealand (British Museum) . . . 303

PAGE

Charms made of human bone, votive bunches of hair, and turtle skull, from a temple in the Admiralty Islands—one-fifth real size. (Christy Collection) 305
Ancestral images from Easter Island—one-tenth real size. (Munich Museum) 306
Carved post from a house from New Zealand. (Christy Collection) 310
Idols carved in wood—one-tenth real size. (London Missionary Society's Collection, now British Museum). 1. From Rarotonga, Hervey Group. 2. Rurutu, Austral Group. 3. From Aitutaki, Hervey Group 312
Sacred place in Dorey, New Guinea. (After Raffray) 318
Love charm from New Guinea—one-fifth real size. (Christy Collection) 322
Article employed in Melanesian rites, for holding objects of use in magic—one-half real size. (Berlin Museum) 323
Human figure of shells and hermit-crabs, used as a temple-ornament in New Ireland—one-eighth real size. (Berlin Museum) 324
Child-mummy on the bier used for burial, from Torres Straits -one-sixth real size. (Berlin Museum) . 327
South Australian native women. (From a photograph) 332
Eucalyptus Forest in South Australia. (From the account of the voyage of the "Novara") . . 334
Marsilia Drummondi 336
Queensland girl. (From a photograph by C. Günther) 338
Young Queensland man. (From a photograph by C. Günther) 339
Native of New South Wales. (From a photograph) 340
Billy Bull and Emma Dugal, natives of South Australia. (From a photograph) . . . 343
Message-sticks with picture-writing, from West Australia—one-third real size. (Berlin Museum) . 344
Woman's apron of emu feathers. (Berlin Museum) 350
Wooden belt, said to be Australian, but perhaps from the New Hebrides—one-fourth real size. (Berlin Museum) 351
Necklace of kangaroo teeth, probably from West Victoria—one-sixth real size. (Berlin Museum) . 351
Womrieras or throwing-sticks of the Australians—one-fifth real size. (Berlin Museum and British Museum) 352
Wooden spears, mostly from North Australia; the second and third from the right are fish-spears—one-fifth real size. (British Museum and Berlin Museum) 353
New South Wales men, showing breast scars. (From a photograph) 354
Bamboo bow, from Torres Straits Islands -one-thirteenth real size. (British Museum) . . 354
Arrow-head from New Guinea, Torres Straits fourth-fifths real size. (Dresden Ethnographical Museum) 355
Stone axes; the three above from North Australia, the lower from Queensland or Victoria—one-sixth real size. (Berlin Museum) 355
Boomerangs and boomerang-shaped clubs. The stick in the middle is of uncertain use—one-tenth real size. (British Museum and Berlin Museum) 356
Axes of stone or horse-shoe iron from Queensland—one-fifth real size. (British Museum) . . 357
Stone club, said to be Australian, possibly from New Britain. (British Museum) . . . 358
North Australian with spears, axe, and club. (From a photograph) 359
Queensland canoe. (Godeffroy Collection, Leipzig) 360
Striking and throwing clubs—one-eighth real size. (Berlin Museum) 361
New South Wales men, showing breast-scars. (From a photograph) 362
Australian bags of woven grass—one-sixth real size. (British Museum) 363
Opossum rug; one-eighth real size. (Berlin Museum) 364
New South Wales women and child. (From a photograph) 366
Queensland girls, one showing "scar-tattooing." (From a photograph) 367
Young Queensland man with "scar-tattooing." (From a photograph) 368
Melanesian axes, clubs, and hammers. (British Museum) 369
New South Wales woman with "scar-tattooing." (From a photograph) 371
Australian magic-sticks. (Vienna Museum) 379
William Lanney, the last Tasmanian. (From a photograph) 381
Truganina, the last Tasmanian woman. (From a photograph) 382
Australian shields 385
Australian "bull-roarers"—one-fourth real size. (Berlin Museum) 389
A Battak of Sumatra. (From a photograph) 395
A Dyak of Borneo. (From a photograph in the Damann Album) 396
Weapon used by watchmen in Java to catch persons running *amok*. (Stockholm Ethnographical Collection) 397
A Calinga of Luzon in the Philippines. (From a photograph in the Damann Album) . . . 399
Tabongs, with Rejang characters, from Sumatra—four-fifths real size. (Munich Museum) . . 401

PAGE

Magic staves of the Battaks, used especially for weather-magic, and also borne in war—one-eighth real size. (Leipzig and Dresden Museum) 403
A Calinga woman of Luzon. (From a photograph in the Damann Album) 406
Toangos of Northern Sumatra. (From a photograph) 407
Tangoi or South-East Bornean head-dress—one-third and one-seventeenth real size. (Frankfort City Museum) 408
Hats worn by chiefs of Kutei tribes in Borneo. (Munich Museum) 409
Igorrote tattooing: *a*, *b*, designs on the calves of the legs; *c*, *d*, on the stomach; *e*, front view; *f*, back view of a *Burik*; *g*, a woman's arm. (From drawings by Dr. Hans Meyer) 410
Igorrote necklaces, with (*a*) tweezers for pulling out hair; (*b*) pendants of crocodile teeth—one-third real size. (From Dr. Meyer's Collection) 411
Ring worn by the Igorrotes on the upper arm when dancing—one-third real size. (From the same) . 411
Malay weapons: 1, 2. Hat and shield from Mindanao, in the Philippines. 3. Quiver with poisoned arrows from Celebes. 4. A champion's shield from Solor. 5. Sword from Gorontalo in Celebes. 6. *Mandau* of the Kahayan River Dyaks. 7. Outfit from Ombai. 8. Spears from Java. (Dresden Collection) 412
Bows and arrows of the Negritos in Luzon—one-twelfth real size. (Dr. Meyer's Collection) . . 413
Bow from Sulu of Asiatic origin, and Negrito harpoon—one-twelfth real size. (Dresden Collection) . 414
Blow-gun, arrows, and quiver, from Borneo—one-fourth real size. (Stockholm Museum) . . 414
Blow-gun, small quiver, and spears of the Kahayan Dyaks of South Borneo; bow, arrows, and quiver from Poggi. (Munich Museum) 415
Mandaus or swords, krisses, and knives: 1, from South Celebes; 2, from the Batang-lupar Dyaks; 3, from Java; 4, from Gilolo; 5, from Java; 6, from the Kahayan Dyaks; 7, from Mentawei; 8, from the Rejangs of Sumatra—one-sixth real size. (Munich Museum) . . . 416
Krisses: 1, from Celebes; 2, said to be from Bali—one-fourth real size. (Munich Museum) . . 418
Dagger from Borneo—one-fifth real size. (Royal Museum, Leyden) 419
1, Sling and sheath of, 2, Igorrote chopping-knife. 3. Guinan hatchet, from Luzon—one-sixth real size. (From Dr. Hans Meyer's Collection) 419
Igorrote and Guinan spears and shields—one-tenth real size. (From Dr. Hans Meyer's Collection) . 420
Spears and shields—1 and 7, from Nias; 2, from Mentawei; 3, 4, 6, from West Borneo; 5, from Gorontalo; 8, from Borneo. (Munich Museum) 421
Shield, blow-gun, spear, and swords of the Torabjas in Central Celebes—one-sixth real size. (Frankfort City Museum) 422
Mail-coats worn by the Dyaks of South-East Borneo 423
Malay utensils: 1. Comb from Timor. 2. Knife from the Philippines. 3. Sickle from Java. 4. Cow-bells from Sumatra. 5. Brasier and rice-pot from Java. 6. Basket from Celebes. 7. Rice basket from Java, for cooling steamed rice in the cover. 8. Brass pipe of the Battaks. (Dresden Ethnographical Museum) 424
A house in Sumatra. (From a model in the Dresden Museum) 425
Plough used by the Triamans of Bencoolen. (Dresden Museum) 425
Agricultural implements used by the Igorrotes: 1. Rice-knife. 2. Digging-stick (1, one-half; 2, one-tenth real size). (From Dr. Meyer's Collection) 426
Hoes from—1, Singapore; 2, Sumatra—one-fourth real size. (Munich Museum) 428
Battak hoes from Sumatra—one-seventh real size. (Leipzig Museum of Ethnology) 429
Javanese buffalo-cart. (From a photograph) 430
1. Wooden tureen and spoon from Luzon—one-third real size (from Dr. Meyer's Collection). 2. Sumatran saddle (Dresden Museum) 431
Dish-cover of armadillo scales from Sumatra—one-tenth real size. (Stockholm Museum) . . . 432
Dish-cover from South-East Borneo. (Stockholm Museum) 432
1. Bamboo betel and tobacco boxes from West Sumatra—one-third real size (Munich Museum). 2. Igorrote spindle—one-third real size (from Dr. Meyer's Collection) 433
Tobacco pipes used by the Igorrotes and Guinans of Luzon—two-thirds real size. (Dr. Meyer's Collection) 434
Carved wooden *sirih* box from Deli, East Sumatra—one-fourth real size. (From a drawing) . . 434
1. Malay loom (from a photograph). 2. Sack carried by the Igorrotes of Luzon—one-eighth real size. (Dr. Meyer's Collection) 435
Basket of a Dyak head-hunter, with half a skull hanging on it. (Munich Museum) 448
Small head-basket used by Guinans of Luzon—one-third real size. (Dr. Meyer's Collection) . . 449
Chief and dignitary of Nias. (From a photograph) 450
Malagasy of Negroid type. (From a photograph in Pruner Bey's Collection) 454
Malagasy of Negroid type. (Same source) 455
Sakalava musical instrument—one-third real size. (Berlin Museum) 456

PAGE

Hova guitar and powder-horn. (Dresden Museum) 457
Malagasy necklace of carved horn. (Missionary Society's Museum) 458
House of a Hova chief. (From the *Globus*) 459
Fenced farm-house in Imerina, Madagascar. (After Ellis) 460
Rice-mortar and paddle from Madagascar. (Stockholm Ethnographical Collection) . . . 461
Madagascar hubble-bubble, in the African style—one-fifth real size. (Berlin Museum) . . . 461
Drawing of a herd of cattle, on the bamboo drinking-cup represented on opposite page. (Berlin Museum) 462
Woven pouch from Madagascar—one-half real size. (Berlin Museum) 462
Hova drinking-cups of bamboo, used also for tobacco-boxes—one-half real size. (Berlin Museum) . 463
Antananarivo, the Hova capital. (From a photograph) 464
Rainitnalavona and Rainilaiarivona, two Prime Ministers of Radama II. (After Ellis) . . . 465
Igorrote ancestral image—one-twelfth real size. (From Dr. Meyer's Collection) 468
Sacred jar, probably from Borneo—one-sixth real size. (Leyden Museum) 470
Wax figure of Buffalo; perhaps an amulet of the Guinans—one-half real size. (From Dr. Meyer's Collection) 471
Talisman from North Borneo and ancestral image from Nias. (Dresden Museum) 473
Rosary with amulet from Madagascar—one-half real size. (Berlin Museum) 479
Rainitsontsoraka—a Christian martyr in Madagascar. (After Ellis) 480

BOOK I

PRINCIPLES OF ETHNOGRAPHY

§ 1. THE TASK OF ETHNOGRAPHY

Geographical conceptions and historical considerations of which account has to be taken in dealing with our subject—Mankind a whole.—The task of ethnography is to demonstrate the cohesion of the human race.

OUR business in this work is to impart a knowledge of mankind as we find it to-day throughout the earth. Owing to the long-established practice of considering with any attention no races save the most progressive and most highly civilized, until it is from these almost exclusively that we form our notion of mankind, and of their doings that make up the history of the world, it becomes the duty of ethnography to apply itself all the more faithfully to the neglected lower strata of humanity. Besides that, its aim must also be to take up this conception of humanity not in a merely superficial way, just so far as the races have grown up in the shade of the dominant civilized peoples, but to trace actually among these lower strata the processes which have rendered possible the transition to the higher developments of to-day. Ethnography must acquaint us not only with what man is, but with the means by which he has become what he is, so far as the process has left any traces of its manifold inner workings. It is only so that we shall get a firm grasp of the unity and completeness of the human race. With regard to the course that our investigation must follow, we have especially to remember that the difference of civilization which divides two groups of mankind may bear no kind of relation to the difference of their endowments. This will be the last difference which we shall have to think of; the first points to consider will be differences in development and surroundings. We shall therefore bestow a thorough consideration upon the external surroundings of the various races, and endeavour *pari passu* to trace the historical development of the circumstances in which we find them to-day. The geographical conception of their surroundings, and the historical consideration of their development, will thus go hand in hand. It is only from the combination of the two that a just estimate can be formed.

Our growth in intelligence and culture, all that we call the progress of civilization, may better be compared with the upward shoot of a plant than with the unconfined flight of a bird; we remain ever bound to the earth, and the twig can only grow on the stem. Human nature may raise its head aloft in the pure ether, but its feet must ever rest on the ground, and the dust must return to the dust. Hence the necessity of attention to the geographical point of view. As for historical considerations, we can point to races which have remained the same for thousands of years, and have changed their place, their speech, their physical appearance, their mode of life not at all, their religion and their knowledge only

superficially. Herodotus tells us about a race of Troglodytes, who dwelt near the Garamantes, the inhabitants of the modern Fezzan. They were active and swift-footed, and spoke a language almost unknown beyond their own boundaries. Here we have Nachtigal's Tebus or Tedas, who to this day inhabit the natural caverns in their rocks, are renowned far and wide for activity and fleetness of foot, and speak a language which has hardly extended itself beyond the walls of their rocky fortress. Thus for 2000 years at least, and for all we know much longer, they have lived in just the same way. They are to-day no poorer, no richer, no wiser, no more ignorant, than they have been these thousands of years. They have acquired nothing in addition to what they possessed then. Each generation has repeated the history of the one before it, and that repeated its predecessors; as we say, they have made no progress. They have always been men with certain gifts—strong, active, having virtues and defects of their own. There they stand, a fragment of bygone ages. In the same space of time we have emerged from the darkness of our forests on to the stage of history; we have made our name, alike in peace and war, honoured and dreaded by all nations. But have we as individuals undergone any so great change? Are we in physical or intellectual power, in virtue, in capacity, any further ahead of our generations of ancestors than the Tubus of theirs? It may be doubted. The main difference lies in the fact that we have laboured more, acquired more, lived more rapidly, and above all, have kept what we have acquired and known how to use it. Our inheritance is larger, fuller of young life; and therefore a comparison of national positions gives us a higher standing among mankind, and indicates too how and why we have become what we are, and what road we must take in order to advance a stage farther.

Throughout all national judgments we find unmistakably as a fundamental fact the feeling of individual self-esteem causing us to take by preference the unfavourable view of our neighbours. We must at least try to be just; and the study of mankind may aid in that direction, impressing upon us as it does the important principle that in all dealings with men and nations we ought, before forming a judgment, to consider that all their thoughts, feelings, and actions bear an essentially graded character. In one stage or another anything may happen, and mankind is divided not by gaps, but by steps. The task of ethnography is therefore to indicate, not in the first instances the distinctions, but the points of transition, and the intimate affinities which exist; for mankind is one whole, though very variously cultured. And if it cannot be too often proclaimed that a nation consists of individuals, which are and remain in all its operations its ultimate elements, there is yet so great a conformity of disposition among these individuals that the thoughts which go forth from one man are as certain to find an echo in others, if they can succeed in reaching them, as the same seed is certain to produce like fruits in like soils.

But the tracing of the road above mentioned is of great importance. Elementary ideas have an irresistible power of expansion, and there is no reason in the nature of things why they should come to a stop at the hut of a Kaffir or the fireplace of a Botocudo. But the obstacles which hinder or delay their travels are endless; and besides, as they arise from life and accompany life, they are, like all life, changeable. Herein is a main cause of the differences among races and of a mass of ethnological problems. One may even say that in the geographical distribution of mankind to begin with, and then in the manner in which they have

acquired culture and the means of culture from the production of fire up to the loftiest ideas of the historical nations, lies the key to the history of primitive man.

We can conceive a universal history of civilization, which should assume a point of view commanding the whole earth, in the sense of surveying the history of the extension of civilization throughout mankind; it would penetrate deep and far into what is usually called ethnography, the study of the human race. For the further inquiry reaches into the depths of prehistoric peoples and those that are outside of history, the more will it meet in every sphere and on every level of civilization with essentially the same single form, which long ago, before the conditions existed for the development of numerous separate centres of civilization, was imparted by one race to another over the earth; and this it will regard as in close connection with mankind of to-day, with the race which has raised all its great new creations upon that common foundation, of which many a fragment still remains unaltered in its hands. At no distant future, no one will write a history of the world without touching upon those peoples which have not hitherto been regarded as possessing a history because they have left no records written or graven in stone. History consists of action; and how unimportant beside this is the question of writing or not writing, how wholly immaterial, beside the facts of doing and making, is the word that describes them. Here also ethnography will show the way to juster notions.

§ 2. SITUATION ASPECT, AND NUMBERS OF THE HUMAN RACE

The inhabited world—The races of the fringe—East and West—Old and New Worlds—North and South—The Ethiopian region—Mutual influence of Northern and Southern races—Insular character of lands—Importance of seafaring—Water on the face of the globe—Unity of the human race—The number and laws of mankind—Movements of races—Extinction of native races through contact with cultivation, and by themselves—Racial distinctions—Half-breeds.

THE human race inhabits countries and islands in the temperate and torrid regions of the earth; some part are found in the frigid zone of the northern hemisphere. Its place of abode forms a zone of varying breadth, lying between the extreme latitudes of 80° north and 55° south. As regards the two great oceans, the northern shores of the Pacific (where Asia and America come within fifty miles of each other) form part of the inhabited region, as also a broad band in the middle, remarkable for the abundance of its habitable islands. On the other hand, the Atlantic, until the Scandinavian colonisation of the Faroes and Iceland, formed a broad gap in the belt of human habitation. We can thus distinguish in the inhabited world, the surface of which, not counting seas, may be taken at about fourteen millions of square miles, northern and southern borders formed by the uninhabitable ice-deserts of the polar regions, eastern and western borders, between which lies the Atlantic Ocean. The races dwelling in these confines look out into emptiness, and have not neighbours on every side, but when their settlements have been pushed far forwards, find themselves in an isolated position; whence a lack in their case of ethnographical interest. On the other hand, some groups of races are so situated as to have enjoyed the important advantages of an intermediate position; such are some of the races that we meet

with in the Pacific, especially toward its northern border, in the districts bordering on the Mediterranean, in Central America. From the position and form of the inhabited world, it is clear that the northern hemisphere contains a larger number of persons than the southern ; that it offers wider districts to open up, with more sides of contact, of more various endowments, and therewith richer possibilities ; in short, that in position, form, and dimensions, it has from early time had all the advantages as regards the development of humanity.

The distribution of man, and equally that of plants and animals, is based, in the northern hemisphere, on interdependence ; in the southern on separation. If we look at mankind as a whole, we can see that its northern members lie in a widespread mutually operative connection ; its southern in remote separation. If we look at the races, we find the Negroids belonging to the south, the Mongoloids and Whites to the north. Civilization has reached its highest developments north of the equator. We shall find similar contrasts in ethnography ; for example, the bowless races belong to the southern groups, whereas in the north we find bows and arrows, not only all over a broad zone, but on fundamentally the same model, from Lapland to East Greenland and Mexico.

Eskimo bow made of bones (British Museum).

The wide gap which the Atlantic Ocean opens in the zone of habitation has the effect of producing "fringe"-lands. Although a brisk intercourse from north to south, together with thickly-peopled regions at the back, and more favourable climates, have rendered these far less ethnographically destitute than the regions towards the poles, we still find that in Africa the highest development has been reached on the east coast, in America on the west, that is on the *inner* sides or those farthest from the Atlantic. The population of Africa has undoubted affinities with that of Asia, but shows no trace of any relations with America. But this connection extends farther, beyond the limits of the mainland of Asia to the great Asiatic islands ; it forms a great region of civilization between the northern and southern borders, which may be regarded as the western counterpart of that more easterly region extending across the Pacific into America. The great mark of distinction between the two portions lies in the use or non-use of iron. In the north, indeed, the western region encroaches upon the eastern ; but the contrast between north and south, ever-increasing, remains persistent past the point where it crosses the boundary between East and West. In their intersection we find the expression of a great difference in antiquity between the former classification which is mainly anthropological, and the latter which is ethnographical. In the later development of races iron has unquestionably played an important part. The boundary between countries which do and do not use iron corresponds with those of other important regions of ethnographic distribution. Where there is no iron, cattle-breeding, the staple of which is oxen, buffaloes, sheep, goats, horses, camels, and elephants, is also unknown ; pigs and poultry also are seldom bred in lands without iron. The distinction in political and social relations goes far deeper. In

America, Oceania, and Australia we have a much older stage of development: group-marriage, exogamy, mother-right, and clan-division; in Europe, Africa, and Asia, the patriarchal system of the family, monogamy, states in the modern sense. Thus among mankind also east and west stand over against each other. America is the extreme east of the human race, and thus we may expect to find there older stages of development than in Africa and Europe, the extreme west.

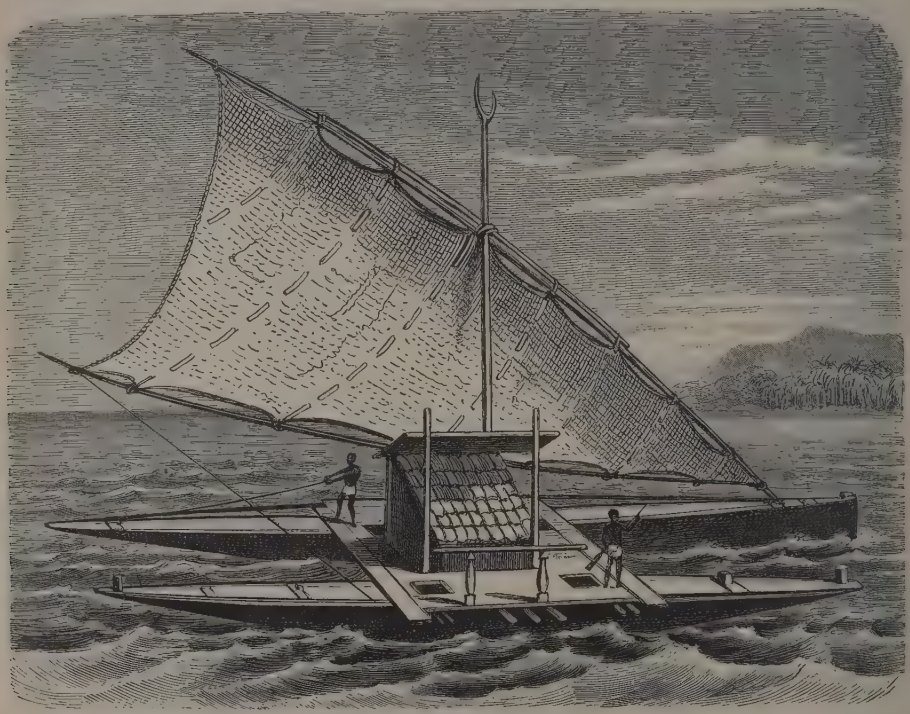
The distribution of races affords a far less simple picture. The Negroid is indeed essentially a southern race. Its northern limit is in Africa formed by the desert; continued in Asia by lofty mountains; reaches its only important extension beyond the northern tropic in the angle of the Indus, and retreats in Oceania to the south side of the equator. Thus we have a southern domain, belonging essentially to the geographical eastern hemisphere, of which the largest territories lie compact and altogether between the tropics and in the south temperate zone. In addition to their southern situation they are affected by the peculiar features of outline and surface which here prevail. The geographical opposition between north and south exists of course all the earth over; but as a factor in ethnographical or anthropological distinctions it concerns only the so-called Old World and the parts adjacent, a fact which has a large share in producing the great variety in the appearance and form of men as we find them on this side, embracing every stage of development from the highest to the lowest. In America, on the contrary, we find one race both north and south, and no ethnographic distinctions of the magnitude which North and South Africa, North and South Asia, or Australia have to show. Anthropologically throughout, ethnographically in many portions, America belongs to the northern regions.

On the other hand, in Africa and Asia the most important question bears upon the relations between north and south. A sharp distinction is here made by the different nature of the boundaries towards the north. Between the negroes and North Africa lies the desert, a large and substantial barrier. South Asia consists only of loosely connected parts, not sharply marked off from the north and middle regions. Above all, India has been subject to influences which distinguish it from Africa; but both in customs and physical characteristics we find in Africa earlier, that is less modified, conditions of a development proceeding from the same origin as in India. Lastly, Malaysia shares with Madagascar and India in the invasion of offsets from northern races.

Wherever dark and light races have been in contact, from the north-west point of Africa to Fiji, crossing has taken place between them. Such half-bred races, of most various degrees of intermixture, inhabit the Soudan, the Sahara, Southern and Central East Africa, Southern Arabia, Madagascar, southern India on both sides of the Bay of Bengal, and Australia. In southern Europe and the extreme of Polynesia we find isolated traces of negroid admixture. Only one well-defined race, thanks to its secluded position, has been able fully to develop itself. We refer to the Australians, who with their dark skins, stiff or curly hair, and long (dolichocephalic) heads appear to spring from a cross of Papuan with Malayo-Polynesian ancestors. The peculiarities (of which we do not know the origin) belonging to the Papuan type are also noticeable here; and we have besides the tendency to degradation in the traces of a low stage of culture and a life of poverty.

The water surface of the earth extends in the sea alone to almost three-

quarters of the whole, so that all the land is an island in a sea nearly three times its size. The most widely separated portion of mankind must, even in the course of their movements in historical times, have been brought to the sea; and before the invention of seafaring there must have been a time when the sea confined them to those regions which had been the cradle of the race. That invention, the earliest indications of which have long disappeared—for in all parts of the earth we find high development of the art side by side with ignorance of it—was the first thing that rendered possible the spread of mankind over almost all the habitable



Fijian double canoe. (From a model in the Godeffroy Collection, Leipzig.)

portions of the globe. In the most various parts of the earth we meet with the arts of shipbuilding and navigation in an advanced stage. This is most conspicuous in the Pacific, least so in the Atlantic. This irregular distribution is a sign of the case with which the art is forgotten; so that we must not from its absence in places, and the absence even of any memory of it, infer a continued or complete non-activity in regard to the sea. Even if we did not meet, in Hawaii and elsewhere, with traditions of larger and better vessels in former times, the close connection which subsists between a high social and political organisation and proficiency in seafaring would presume the possibility of a rapid retrogression in the latter. The Northmen sailed to Iceland, Greenland, America, in little boats which, perhaps, were not so good as those used by the Polynesians; afterwards they lost sight of the land which had been their goal, and forgot the way to it. The very extent of the inhabited world at the present day, embracing as it does

all habitable lands with the exception of a few remote and small islands, is in itself evidence for the antiquity of man.

The broad expanse of waters opened to men a copious source of food, and for that reason caused the maritime regions to be most thickly peopled; it also facilitated intercourse between distant countries, which might have been impossible across lands inhabited by hostile races, and accordingly the higher civilization spread inland from the coasts. For this reason it has always exercised the remarkable influence upon men's thoughts which we see in the part played by the sea or lake-horizon in all images of the world that have ever been conceived. Most of these picture the earth as an island in a broad sea, and the future world as lying far off in the sea. Whether this be a land with a stream round it or an island in the evening glow, whether it be in a lake or in a river, or copious springs gush from it, or beardless youths constantly hold the water back from it, or whether, lastly, it is only that the way to it lies over the sea, it is not waterless land. The soul has to take its way across water; hence the frequent occurrence of boat-formed coffins or even grave-stones, the burial in boats, or the little canoe used by the Dyaks as a sepulchral monument.

Thus wherever the earth is habitable by man, we find peoples who are members of one and the same human race. The unity of the human genus is as it were the work of the planet Earth, stamped on the highest step of creation therein. There is only one species of man; the variations are numerous, but do not go deep. Man is in the widest sense a citizen of the earth. Even to parts of the earth where he cannot remain he makes his way. He knows nearly the entire globe. Of all the beings attached to the ground he is one of the most locomotive. Individual movements are linked together, and one great movement, the substratum of which is all humanity, goes forward with time. As the linking is necessary and continuous, it raises individual movement to a position of higher significance. The ultimate result is not only a wider distribution, but also the increasing permeation of the portions that dwell within the habitable limits until a general agreement in essentials is attained. This affects the whole; peculiarities adhere to localities. Thus we are entitled, in a scientific sense, to speak of the unity of the human race, if by unity we understand not uniformity but the community, shown by testimonies from every domain, of the life of different peoples, in a history embracing many thousands of years, as presupposed by the common basis which nature has given. If there has been in the later historical period so rapid an acceleration in the pace at which culture has progressed, that certain groups seem to have advanced far beyond the remaining mass, there yet remains much of the common inheritance to be found among the highest as well as the lowest strata. And if it be inquired, what is the origin of this common inheritance, we can again point to the fact that restless movement is the stamp of mankind. In comparison with its strength and duration the earth is small; a thousand generations of our ancestors, from the moment that ships were invented for the crossing of rivers and seas, were enabled, whether voluntarily or not, to wander round it. But that moment lies far behind us. Only a short-sighted conceit can regard the fact that, in the four centuries since the discovery of America, Europeans have spread far and wide over that continent their domestic animals and plants, their weapons and implements, above all their religion, as an unapproached phenomenon in the history of the world. Others besides Northmen discovered

America before Columbus. The world that we pretentiously style "the New" must have been discovered from the westward many a time before the Pale Faces came from the east as the latest and definitive discoverers. If the Malays have spread over the 200° of longitude that separate Madagascar from Easter Island in a period which, as language and else shows, has not been going on for many centuries; if, since the European discovery of America, individual tribes in that continent have changed their locality by over 2000 miles; if over half Africa, within a belt 40° of latitude in width, a language is spoken with only differences of dialect equivalent to that between high and low German, we must grant that European civilization was not the first to set a girdle round the earth. The great and only distinction is that to-day that takes place deliberately which in former ages was the result of a dim impulse, such as in historic times acted on Alexander and Columbus, in prehistoric times on thousands of their predecessors.

If we regard mankind as a body ever in movement, we cannot, as once was usual, look upon it as a union of species, sub-species, groups, races, tribes, rigidly separate from each other. As soon as ever a portion of mankind had learnt to plough the dissociating ocean, the mark was set for ever-progressing fusion. If we assume, with the majority of anthropologists at the present day, a single origin for man, the reunion, into one real whole, of the parts which have diverged after the fashion of "sports," must be regarded as the unconscious ultimate aim of these movements of mankind. This, in the limited space of the habitable world, must lead to permeation, and, as a consequence, to mingling, crossing, levelling. But again, as a similar organisation has spread among men, the possibility has increased of migration to places the most remote from the original abode; and in the whole world there is hardly a frontier left which has not been crossed. In applying the comprehensive term "Wandering of the Nations," people are apt to overlook the individual, whose movements we must expressly declare are no less important.

The numbers of mankind are closely dependent on their territory, since this exercises a great influence on their interior development, their distribution, their relations. The total figure, as now estimated, of 1,500,000,000 must be regarded as the result of a development never attained before. The development of modern conditions is in a higher measure than is usually believed connected with the increased replenishment of the earth. The organisation of races outside of the European and Asiatic sphere of civilization does not permit any density of population to exist. Small communities cultivating their narrow patches of ground are separated from each other by wide empty spaces which either serve for hunting-grounds or lie useless and vacant. These limit the possibilities of intercourse, and render large permanent assemblies of men impossible. Hunting races, among whom agriculture does not exist or tends to vanish, often dwell so thinly scattered that there will be only one man, frequently less, to 24 square miles. Where there is some agriculture, as among many Indian tribes, among Dyaks, in Papua, we find from 10 to 40 in the same area; as it develops further, in Central Africa for instance, or the Malay Archipelago, from 100 to 300. In the north-west of America the fishing-races who live on the coast run to 100 in 20 square miles, and the cattle-keeping nomads to about the same. Where fishing and agriculture are combined, as in Oceania, we find as many as 500. The same figure is reached in the steppes of Western Asia by the partly settled, partly

nomad population. Here we cross the threshold of another form of civilization. Where trade and industry combine to operate there is sustenance for 10,000 persons (as in India and East Asia), or 15,000 (as in Europe) to 24 square miles.

This enumeration shows at the lowest round of the ladder peoples belonging to the most different zones and countries. All races in a state of nature live thinly scattered; civilized populations are marked by greater density. The former are more dependent on the soil than the latter; in districts similarly endowed their distribution is as a rule similarly proportioned. The difference which we see between the well-cultivated but thinly-peopled corn-bearing areas and the thickly-inhabited districts of spade-cultivation are results of civilization.

In density of population lies not only steadiness of and security for vigorous growth, but also the immediate means of promoting civilization. The closer men are in contact, the more they can impart to each other, the less does what is acquired by civilization go to waste, the higher does competition raise the activity of all their powers. The increase and maintenance of the numbers are intimately connected with the development of culture; a population thinly scattered over a large district means low civilization, while in old or new centres of civilization we find the people in dense masses. China and India reckon their inhabitants at 600,000,000, but an equivalent area of the intervening region of Central Asiatic nomads, Mongolia, Tibet, East Turkestan, cannot show a sixtieth of the number. Six-sevenths of the earth's inhabitants belong to civilized countries.

While the history of the European nations for centuries past shows the same decided tendency to increase which we observe even in ancient times, the uncivilized races offer examples of shrinkage and retrogression such as we find in the case of the others, if at all, only lasting over a short period, and then as the result of casualties such as war and pestilence. The very thinness of the population is a cause of their decay; their smaller numbers are more readily brought to the point of dwindling or vanishing. Rapid using-up of the vital powers is a characteristic [illegible] all the races in the lower stages of civilization. Their economical basis is narrc and incomplete, frugality only too often verges on poverty, scarcity is a freque visitor, and all those measures of precaution with which sanitary science surrounds our life are lacking. In the struggle with the too powerful forces of nature, as in the Arctic regions or the steppe-districts of the southern hemisphere, on the confines of the inhabited world, they often succumb till they are completely wiped out, and a whole race perishes. It is quite a mistake to refer, as is often done, the extinction of barbarous races, of which we hear so much, solely to contact with superior civilization. But closer consideration enables us to recognise self-destruction as a no less frequent case. The two work as a rule together; neither would attain its end so quickly without the co-operation of the other. The basis of a healthy increase in population is an approximate balance of the sexes; this among uncivilized people is generally disturbed, and the number of children small. War, murder, and kidnapping all contribute to reduce the population. Human life is of small value, as human sacrifices and cannibalism sufficiently indicate. Lastly, man in a state of nature is far from possessing that ideal health of which so many have fabled; the negroes of Africa can alone be described as a robust race. Australians, Polynesians, Americans, on the other hand, are far more subject to diseases than civilized men are, and adapt themselves to new climates with difficulty. There is no question but that these peoples were in many districts slowly dying

out by sickness before the appearance of Europeans. But no doubt the arrival of civilization disturbs society down to its roots. It contracts the available space, thus altering one of the conditions upon which, as we shall hereafter see, the peculiar social and political arrangements of races in a natural state were framed. It introduces wants and enjoyments which are not in harmony with the mode of living usual among these people, or their capacity for labour. It brings upon them diseases previously unknown, which on a new soil commit frightful ravages; and inevitable quarrels and fighting besides. Over the larger territories, such as North America, Australia, New Zealand, the progress of civilization led to the crowding of the aboriginal races into the least favourable districts, and therewith to the diminution of their numbers. In the smaller, such as oceanic islands (but also in Cuba and Haiti), they have nearly died out, in some cases been absorbed by the stronger race, in any case they have disappeared. Where the greater toughness of the inferior race, or more favourable natural conditions, has delayed the process, as in any part of Africa, in North America, in Mexico, an intermixture, which will ultimately end no less in the abolition of the natives as an individual and independent race, is in progress. Great shiftings have already taken place, others are going on, and over wide districts, owing to these passive movements, it is impossible to think of the people as in a state of stability. As far as 95° of west longitude, North America can show only the débris of Indian tribes;[1] in Victoria and New South Wales there are hardly a thousand aborigines left; and it is only a question of time when Northern Asia, North America, Australia, and Oceania will be Europeanised.

A thousand examples show that in all this change and movement the races cannot remain unaltered, and that even the most numerous, counting their hundreds of millions, cannot keep their footing in the tumult that surges around them. Inter-breeding is making rapid strides in all parts of the earth. From North and East Africa, Arabs and peoples of the Berber stock are pressing upon the Negroes, of whom the most remote tribes to the southern extremity of the continent show in their Semitic features how long these influences have been at work. In the place of the Hottentots we find the Bastaards, European half-breeds. In Canada nearly all the French settlements show traces of Indian blood; in Central and South America the Mestizos and Mulattos are already stronger than the full-blooded Indians; in Oceania, Malays and Polynesians are crossed with the Negro of the Pacific; throughout Central Asia there is a mixture of Mongol, Chinese, and European blood, reaching far in the direction of Europe and affecting the whole north and east of one quarter of the globe. The greater bulk, quicker growth, and superiority in all conquering arts, which mark the more highly civilized races, give them, wherever climate is not unfavourable, the advantage in this process, and we can speak of an absorption of the lower by the higher even where the latter for the present are not in the majority. If there is any consolation in the universal disappearance of native races, it is the knowledge that a great part of them is being slowly raised by the process of intermixture. No doubt people like to repeat a statement, professedly based on old experience, that in half-breeds the vices of both parents predominate, but a glance at the national life of the present day is enough to show that Mulattos, Mestizos, Negro and Arab half-breeds

[1] [There is some doubt whether the actual number of North American Indians has much diminished. Rather the natural multiplication of the race has been checked.]

stand in America and in Africa at the head of Indians and Negroes. The mixture once begun continues to progress, and each fresh infusion of higher blood tends to reduce the interval by levelling up. We need only consider how nearly the Indians of Mexico and Peru have risen to the level of the people of European descent, from whom they seemed at the time of the Conquest to be separated by a bottomless chasm.

Sandili, king of the Gaikas; showing the Semitic type of the Kaffirs. (From a photograph by G. Fritsch.)

If the history of the world shows a spread, interrupted indeed but ever progressing, of civilization throughout the earth, the natural numerical preponderance existing among civilized folk is an important factor therein. The people who increase the more quickly pour out their surplus upon the others, and thus the influence of the higher culture, which itself was the cause or condition of the more rapid multiplication, gets spontaneously the upper hand. Thus the spread of civilization appears as a self-accelerating outgrowth over the world of civilizing races, ever striving more completely to effect that unity of the human race which forms at once its aim and task, its desire and hope.

A Galla monk: Hamitic or Semitic blend. (From a photograph in the collection of Pruner Bey.)

In conclusion, if we seek to trace backward the road which the most important parts of mankind have followed, we find the starting-point to be the neighbouring existence of several variations, or, as Blumenbach prefers, degenerated forms of the one human species. These were at first confluent at a few points only; but, as intercourse increased, came more and more into contact, at last penetrating and mingling with each other to such a degree that no one of the original varieties now exists in the form once peculiar to it. What remains, however, leads us back to two great contrasted divisions which survive in the races of to-day, the Whites and Mongoloids in the northern hemisphere, the Negroes in the southern. These embrace the further

contrasts of continental compactness and oceanic disconnection; of the world which is deeply interlaced with the north polar regions, and that which is cut off by the ocean from polar influences. The Negro races, whether in Africa, Asia, or the Pacific, may once have lived further north than they do now; but, in any case, they always held the more southerly position under the impulse which has assigned to them this present place of abode.

§ 3. THE POSITION OF NATURAL RACES AMONG MANKIND

The conception of a natural or barbarous race—Progress and retrogression—Bodily differences—Civilized races—The brute in man—Wherein does the possession of culture consist?—Common property of mankind in reason, language, religion—In the remaining elements of civilization the difference is only one of degree.

FIRST a word as to the name of "natural" races which we shall frequently have to use. They are those races who live more in bondage to, or in dependence on, nature than do those whom we call "cultured" or "civilized." What the name expresses is a distinction in mode of life, of mental talent, of historical position; it assumes nothing and prejudices nothing in those directions, and is therefore doubly suitable for our purpose. For we shall perhaps have to make this neutral name contain what is in many respects so different a conception as that which the reader has been wont to attach to the term "savages." We speak of natural races, not because they stand in the most intimate relations with Nature, but because they are in bondage to Nature. The distinction between natural and cultured races is not to be sought in the degree, but in the kind of their association with Nature. Culture is freedom from Nature, not in the sense of entire emancipation, but in that of a more manifold and wider connection. The farmer who stores his corn in a barn is ultimately just as dependent on the soil of his fields as the Indian who reaps in the swamps the rice which he did not sow; but the former feels the dependence less, since, owing to the provision which he had the wisdom to store up, the chain is longer and its pressure accordingly less severe; while the latter is touched in the very sinews of life by every tempest which shakes the ears into the water. We do not become any the freer of Nature by our more thorough utilisation and exploration of her; we only make ourselves less dependent on individual accidents of her being or of her course by multiplying the points of contact. It is just by reason of our civilization that we are actually to-day more dependent on her than any former generation.

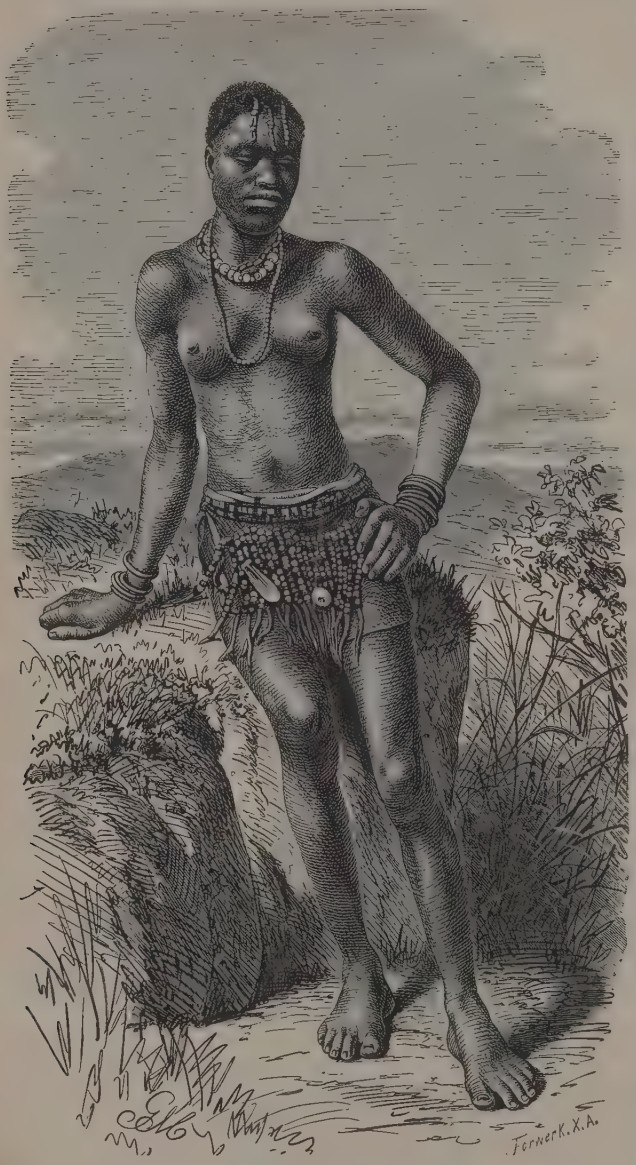
We must not content ourselves with contrasting natural and civilized races, and noticing the wide gap which seems to yawn between them; our business is to propound the question: What is the position which the natural races hold among mankind? For centuries this question has been treated with an indolence which, when its desire for facts, narratives, and descriptions was once appeased, felt no further necessity for establishing the relation of "savages" to the rest of the human race. These black and brown men were very strange, very curious; it was highly interesting to read of them, and that was quite enough. We have no occasion to laugh at this attitude; our own delight in descriptions of travel is much of the same sort. The more uncivilized the country, the more fascinating

the tale. But the researches of Cook, Forster, Barrow, Lichtenstein, and so on, making, as even they did, some effort after a deeper insight into and clearer views of natural life, possessed for their contemporaries chiefly a romantic interest, and gave little subject of consideration to the philosophers. The only deeper emotion aroused by the increasing number, excellence, and popularity of works of travel towards the end of the last century consisted in the shaking of beliefs in that blissful state of nature which beautiful spirits after Rousseau venerated as the most desirable existence, only to be realised in the solitude of primeval forests, or on the shores of fortunate islands. It was sought, but never found. What a disillusion for hearts of sensibility such as were possessed by the readers of *The Indian Wigwam*, or George Forster's sketch of the paradisal Otaheitans.

Slowly did the consideration of savage races make its way from the sphere of the emotions to that of the intellect; and at the same time the estimate formed of these races sank a good deal lower, proportionately almost to the greater distance by which we are ahead of them rather in intellect than in those amiable dispositions and expressions which had hitherto been regarded with predilection. Then came into the world the idea of evolution, dividing races into strata; whereby, as must be clearly pointed out, uncivilized races were, on the basis less of considered facts than of general sentiment, lumped together as a kind of heterogeneous foundation. One can understand the almost passionate need which was felt of providing supports in the world of actual fact for the bold edifice of the theory of evolution, and if we cannot ally ourselves at all points with this feeling, it would be unjust not to recognise that it has called forth, no less in the study of the life of races than in that of all life, a movement which is bringing fruitful truths to light. In every field the most difficult research is that into origins; but it is just this once-neglected but most profound problem which the evolutionists have handled in ethnology as well as elsewhere with an admirable unity of purpose. Whether negative or positive, their results deserve our gratitude. To them is due the merit of having placed a rich array of facts at the disposal of science; from the day when they took it in hand must we date the thorough research into what has been somewhat too hastily called the original conditions of the human race.

While we are duly thankful for these pioneering achievements, we cannot reconcile ourselves to their conclusions. They look for origin and "development" everywhere. Are we not entitled, on scientific territory, to meet with a certain mistrust such a search, which knows so well beforehand what it is going to find? Experience teaches us how near to this lies the danger of premature assumption. A man whose head is full of one possibility holds others very cheap. If the inquirer, steeped in the idea of evolution, finds a race which in several or even many respects is behind its neighbours, the "behind" is involuntarily converted into "below"; it is regarded as on a lower round of the ladder by which mankind have ascended from their original state to the heights of civilization. That is the counterpart of the one-sided, nay, extravagant notion that man came into the world a civilized being, but that a retrogressive degeneration has made him what we find to-day among "natural" races. Just as the idea of evolution found its chief adherents among physical students, so, for reasons which we can easily divine, did this notion of retrogression appeal to students of religion and language. Meanwhile it has at the present day been pushed far, in our view too far, into the background. Inquiry has far less to dread from it than from the opinion most

decidedly opposed to it, of which the fundamental conception expressed in its basest and most abstract form would be somewhat as follows: "In mankind there exists only upward effort, progress, development; no retreat, no decay, no dying out." Put in this way, do we not at once see how one-sided is such a way of looking at things? It is true that only extremists go so far in this direction, and Darwin, who, as a great creator of ideas, held his views with the fullest sense of proportion, admits that many nations may undoubtedly have gone back in their civilization, some even fallen into utter barbarism; although, he cautiously adds, he has found no evidence for the latter case. But even he, in his *Descent of Man*, has not always been able to escape the temptation to imagine mankind more various in itself and reaching in its supposed lowest members more nearly down to the brute world than on cooler reflection appears possible.



Young girl of the Mountain Damara tribe. (From a photograph belonging to the Barmen Mission.)

Here we see the two extreme conceptions of natural races. We can understand how fundamentally different must be the resulting modes of considering every side of their existence, or estimating their past and future. For what difference can be greater than between a conception which assigns them this place far below us, where all the capacities which have matured on the long and difficult road between their position and ours are as yet unde-

veloped, and one which regards them as it were on the same line with us, at an equal or similar stage of evolution, but robbed by ill-luck of a large part of their share of culture, and thus impoverished, miserable, and in arrear? May we be permitted to examine the facts at first hand, and to approach a little nearer to the mean where the truth lies than it has been granted these hypotheses to do.

The question which first occurs is that of innate physical distinctions, since these must enable us to form the most trustworthy conclusions as to the nature and magnitude of the general difference to be observed among mankind. But that is a matter of anatomy and physiology, and as such concerns the anthropologist rather than us. For separate facts and all wider excursions in the field our readers must be referred to books on the subject. From our ethnographical point of view, from which the great distinctions in human civilization, with their important results, are most clearly to be recognised, the first thing we wish is that the notion of culture-races, in respect of mankind, might be somewhat more thoroughly tested than has yet been done. It would, we may safely predict, be found first of all that qualities appear in the bodily frame of civilized races due to the fact of their civilization, just as on the other hand the bodies of natural races have certain features clearly indicating the operation of a mode of life marked by the lack of all that we are used to call culture. Gustav Fritsch, an anatomist who has studied the natural races in their natural state, asserts that the shapely development of the human body is only possible under the influence of civilization; and readers of his descriptions of Hottentots, Bushmen, and even Kaffirs, will feel convinced that well-developed bodies, such as a sculptor would call beautiful, are rarer among them than among us, the "played-out" children of civilization. He states plainly in one place that the healthy, normally-developed German, both as to proportions and as to strength and completeness of form, surpasses in fact the average Bantu man.[1] The Bantus, we may add, are, in the Kaffir branch of which he is here speaking, one of the toughest and most powerful races of Africa. In recent times we have often heard similar judgments; and the saying of an American ethnographer, that the Indians are the best model of the Apollo Belvedere, cannot pass even as a flower of speech. Deeper investigations have shown differences in the skeleton referable in the one case to the influences of civilized, in the other to those of uncivilized, life. Virchow has plainly noted Lapps and Bushmen as "pathological" races, that is, impoverished and degraded by hunger and want. But the most important experiment for settling the value of racial distinctions—one for which the resources of science are too small, and only the history of the world suffices—is now for the first time in progress. The introduction of the so-called lower races into the circle of the higher civilization, and the overthrow of the barriers which once were raised high against such introduction, is not only a brilliant feat of humanity, but at the same time an event of the deepest scientific interest. For the first time millions of what was considered the lowest race—the blacks—have had all the advantages, all the rights and duties of the highest civilization thrown open to them; nothing prevents them from employing all the means of self-formation which—and herein lies the anthropological interest of the process—will necessarily be transformation.

[1] [One would be curious to see the result of a fight between equal forces of normally-developed Germans and average Zulus or Matabeles, firearms being barred. The question of relative beauty is one which each race will answer differently.]

If we could say to-day with approximate certainty, what will become in the course of generations of the 12,000,000 of negro slaves who have within the last thirty years been freed in America, and who will, in the enjoyment of freedom and the most modern acquisitions of culture, have multiplied to 100,000,000, we could with certainty answer the question as to the effect of culture upon race-distinctions. But as it is, we must be content with hints and conjectures.

It may be safely asserted that the study of comparative ethnology in recent years has tended to diminish the weight of the traditionally-accepted views of anthropologists as to racial distinctions, and that in any case they afford no support to the view which sees in the so-called lower races of mankind a transition-stage from beast to man. The general similarity of man to the brutes in bodily structure cannot indeed be contested; what we demur to is the assumption that individual portions of mankind are so much more like the beasts than others. In our study of people of whatever race we come upon traits that may be called bestial; but this is only what was to be expected. Since man has retained in his bodily structure so close a resemblance to the apes that even the most recent classifiers have attached importance to this only, and might, without fear of blame for illogicality, recur to the old Linnæan grouping of the genus *homo* with the Apes in an order of Primates, a reduction of the spiritual element in human nature is quite enough to allow the bestial part of the material foundation to emerge in a pretty glaring form. We all, alas! are familiar with the idea that a beast lies hidden in every man, and "brutality," "brutalisation," and other only too familiar terms, prove how frequently our fancy is called upon for corresponding images. When a starving family of Australian aborigines retrieves from the vulture a piece of carrion, which by all natural rights has long been his property, and flings itself like a pack of greedy jackals on its prey, gorging until repletion compels slumber, this testifies to a brutality in their mode of life which suppresses all movements of the soul. Nor are we surprised when African travellers can compare a startled swarm of Bushmen, who see an enemy in every stranger, black or white, with nothing else than a troop of chimpanzees or orangs in flight. We must not, however, let all our blows fall on these poor "natural" races who have on the whole no greater naturally-implanted tendency towards the bestial than we ourselves. There exist Europeans who are morally degraded below the level of the Australians. This sad faculty of being or becoming like the brutes is unhappily present in all men, in some a little more, in others a little less. Whether it manifests itself with more or less frequency and plainness depends merely upon the degree of acquired capacity for dissimulation, which often corresponds to that of civilization. But it is civilization alone which can draw any boundary between us and the "natural" races. We may declare in the most decided manner that the conception of "natural" races involves nothing anthropological or physiological, but is purely one of ethnography and civiliza-

Steel Axe of European make with old bone handle, from New Zealand. (Christy Collection.)

on. Natural races are nations poor in culture. There may be peoples belonging o every race, endowed by nature in every degree, who either have not yet pro-ressed to civilization, or have retrograded in respect of it. The old Germans and auls appeared no less uncivilized beside Roman civilization than do Kaffirs or olynesians beside ours; and many a people which to-day is reckoned as a portion f civilized Russia was at the time of Peter the Great still in a state of nature.

Ainu beside one of their store-huts. (From a photograph in the possession of Freiherr von Siebold, Vienna.)

The gap which differences of civilization create between two groups of human eings is in truth quite independent, whether in its depth or in its breadth, of the ifferences in their mental endowments. We need only observe what a mass of ccidents has operated in all that determines the height of the stage of civilization eached by a people, or in the total sum of their civilization, to guard ourselves ith the utmost care from drawing hasty conclusions as to their equipment either n body, intellect, or soul. Highly-gifted races can be poorly equipped with all that nakes for civilization, and so may produce the impression of holding a low position

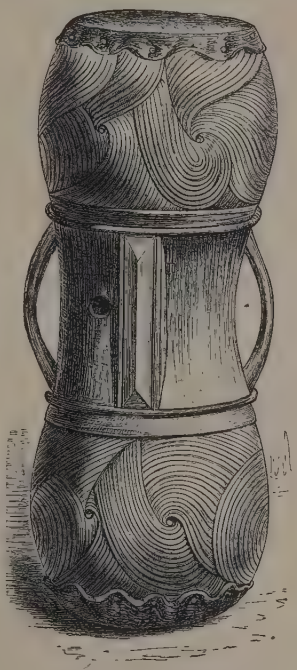
among mankind. Chinese and Mongols belong to the same stock; but what a difference in their civilization. This is even more apparent if, instead of the Mongols, we take any of the barbarian tribes which, in the frontier provinces of China, stand out like islands from a sea of more highly-civilized people, who lap them round and will soon overwhelm them. Or again, the latest researches make it probable that many of the Ainu, the aborigines of the northern island of Japan, stand nearer to the Caucasian than to the Mongolian stock. Yet they are a "natural" race, even in the eyes of Mongolic Japanese. Race as such has nothing to do with the possession of civilization. It would be silly to deny that in our own times the highest civilization has been in the hands of the Caucasian, or white, races; but, on the other hand, it is an equally important fact that for thousands of years in all civilizing movements there has been a dominant tendency to raise all races to the level of their burdens and duties, and therewith to make real earnest of the great conception of humanity—a conception which has been proclaimed as a specially distinguishing attribute of the modern world, but of which many still do not believe in the realisation. But let us only look outside the border of the brief and narrow course of events which we arrogantly call the history of the world, and we shall have to recognise that members of every race have borne their part in the history which lies beyond, the history of primeval and pre-historic times.

§ 4. NATURE, RISE, AND SPREAD OF CIVILIZATION

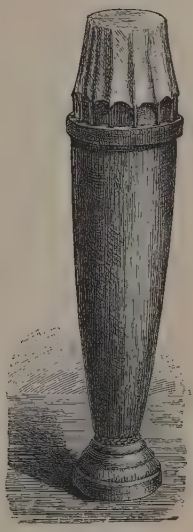
Natural and civilized races—Language and religion universal possessions—Races with and without history—Reasons why many races are in a backward state—The development of civilization is a matter of hoarding—So-called semi-civilization—Material and spiritual elements in hoarded civilization—The material basis and the spiritual nucleus—Natural conditions required for development—The part of agriculture and pasture in the development of civilized politics—Zones of civilization—Loss of civilization.

WHAT is then the essential distinction which separates natural and civilized races? Upon this question the evolutionist faces us with alacrity, and declares that it was done with long ago; for who can doubt that the natural or savage races are the oldest strata of mankind now existing? They are survivors from the uncultured ages out of which other portions of mankind, who have in the struggle for existence forced their way to higher endowments and have acquired a richer possession of culture, have long ago emerged. This assumption we meet with the question: Wherein then does this possession of culture consist? Is not reason, the basis, nay, the source of it all, the common property of the human race? To language and religion, as in some measure the noblest forms of expression, we must give the precedence over all others, and connect them closely with reason. In the fine expression of Hamann: "Without speech we could have had no reason, without reason no religion, and without these three essential components of our nature neither intelligence nor the bond of society." It is certain that language has exercised an influence reaching beyond our sight upon the education of the human spirit. As Herder says: "We must regard the organ of speech as the rudder of our reason, and see in talk the heavenly spark which gradually kindled into flame our senses and thoughts." No less certainly does the religion of the less civilized races contain in itself all the germs which are hereafter to form the noble flowery

forest of the spiritual life among civilized races. It is at once art and science, theology and philosophy, so that that civilized life which strives from however great a distance to reach the ideal contains nothing which is not embraced by it. Of the priests of these races the saying holds good in the truest sense that they are the guardians of the divine mysteries. But the subsequent dissemination of these mysteries among the people, the popularising of them in the largest sense, is the clearest and deepest-reaching indication of progress in culture. Now while no man doubts of the general possession of reason by his fellow-men of every race and degree, while the equally general existence of language is a fact, and it is not, as was formerly believed, the case that the more simply constructed languages belong to the lower races, the richest to those who stand highest; the existence of religion among savage races has been frequently doubted. It will be one of our tasks in the following pages to prove the unfoundedness of this assumption in the light of many facts. For the present we will venture to assume the universality of at least some degree of religion.



Ambuella Drum. (After Serpa Pinto.)



Igorrote Drum from Luzon. (From the collection of Dr. Hans Meyer.)

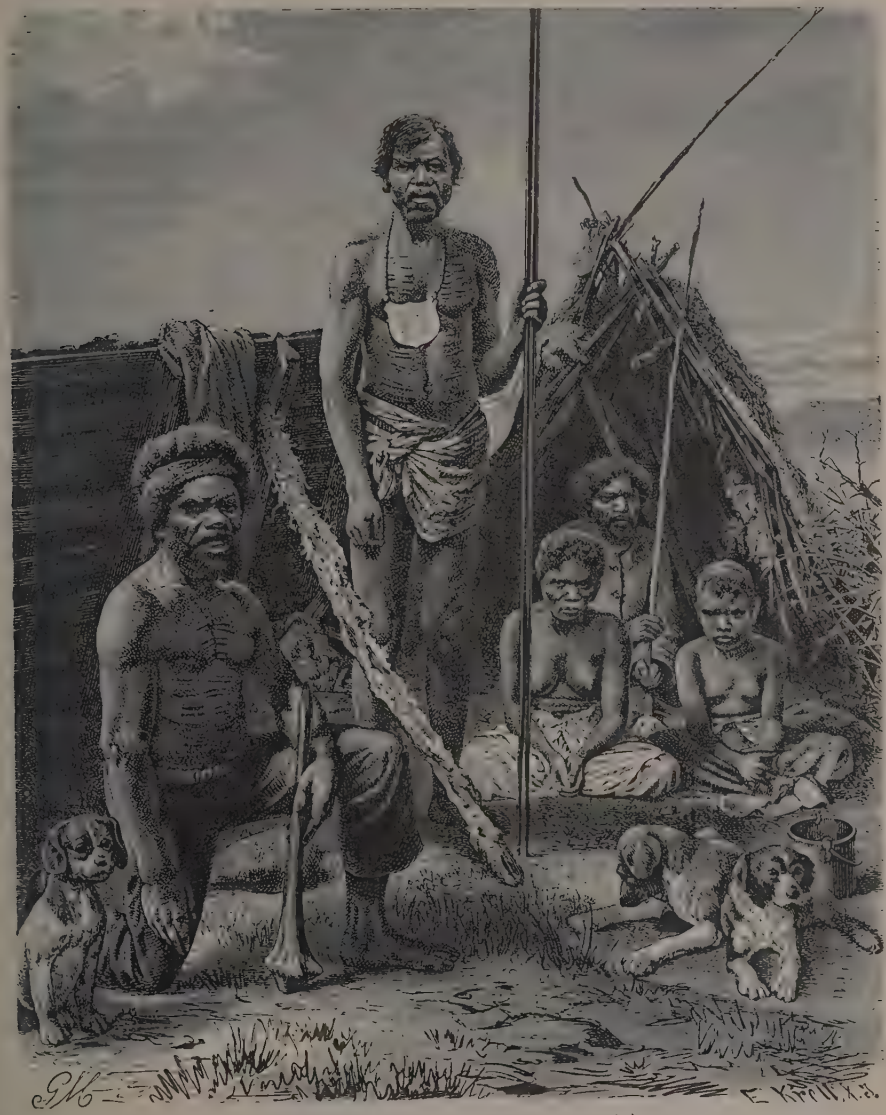
In matters connected with political and economical institutions we notice among the natural races very great differences in the sum of their civilization. Accordingly we have to look among them not only for the beginnings of civilization, but for a very great part of its evolution, and it is equally certain that these differences are to be referred less to variations in endowment than to great differences in the conditions of their development. Exchange has also played its part, and unprejudiced observers have often been more struck in the presence of facts by agreement than by difference. "It is astonishing," exclaims Chapman, when considering the customs of the Damaras, "what a similarity there is in the manners and practices of the human family throughout the world. Even here, the two different classes of Damaras practise rites in common with the New Zealanders, such as that of chipping out the front teeth and cutting off the little finger." It is less astonishing if, as the same traveller remarks, their agreement with the Bechuanas goes even further. Now since the essence of civilization lies first in the amassing of experiences, then in the fixity with which these are retained, and lastly in the capacity to carry them further or to increase them, our first question must be, how is it possible to realise the first

fundamental condition of civilization, namely, the amassing a stock of culture in the form of handiness, knowledge, power, capital? It has long been agreed that the first step thereto is the transition from complete dependence upon what Nature freely offers to a conscious exploitation, through man's own labour, especially in agriculture or cattle-breeding, of such of her fruits as are most important to him. This transition opens at one stroke all the most remote possibilities of Nature, but we must always remember, at the same time, that it is still a long way from the first step to the height which has now been attained.

The intellect of man and also the intellect of whole races shows a wide discrepancy in regard to differences of endowment as well as in regard to the different effects which external circumstances produce upon it. Especially are there variations in the degree of inward coherence and therewith of the fixity or duration of the stock of intellect. The want of coherence, the breaking-up of this stock, characterises the lower stages of civilization no less than its coherence, its inalienability, and its power of growth do the higher. We find in low stages a poverty of tradition which allows these races neither to maintain a consciousness of their earlier fortunes for any appreciable period nor to fortify and increase their stock of intelligence either through the acquisitions of individual prominent minds or through the adoption and fostering of any stimulus. Here, if we are not entirely mistaken, is the basis of the deepest-seated differences between races. The opposition of historic and non-historic races seems to border closely upon it. But are historical facts therefore lost to history when their memory has not been preserved in writing? The essence of history consists in the very fact of happening, not in the recollecting and recording what has happened. We should prefer to carry this distinction back to the opposition between national life in its atoms and national life organised, since the deepest distinction seems to be indicated by internal coherence which occurs in the domain of historical fact, and therefore mainly in the domain of intellect. The intellectual history of mankind no less than the social and political is in the first place a progression from individual to united action. And in truth it is in the first place external nature upon which the intellect of man educates itself, seeing that he strives to put himself towards it in an attitude of recognition, the ultimate aim of which is the construction within himself of an orderly representation of Nature, that is the creation of art, poetry, and science.

Showing as they do every possible variety of racial affinity, the "natural" races cannot be said to form a definite group in the anatomical or anthropological sense. Since in the matter of language and religion they share in the highest good that culture can offer, we must not assign them a place at the root of the human family-tree, nor regard their condition as that of a primitive race, or of childhood. There is a distinction between the quickly ripening immaturity of the child and the limited maturity of the adult who has come to a stop in many respects. What we mean by "natural" races is something much more like the latter than the former. We call them races deficient in civilization, because internal and external conditions have hindered them from attaining to such permanent developments in the domain of culture as form the mark of the true civilized races and the guarantees of progress. Yet we should not venture to call any of them cultureless, so long as none of them is devoid of the primitive means by which the ascent to higher stages can be made—language, religion, fire,

weapons, implements; while the very possession of these means, and many others such as domestic animals and cultivated plants, testifies to varied and numerous dealings with those races which are completely civilized.



Queensland Aborigines. (From a photograph.)

The reasons why they do not make use of these gifts are of many kinds. Lower intellectual endowment is often placed in the first rank. That is a convenient, but not quite fair explanation. Among the savage races of to-day we find great differences in endowments. We need not dispute that in the course

of development races of even slightly higher endowments have got possession of more and more means of culture, and gained steadiness and security for their progress, while the less-endowed remained behind. But external conditions, in respect to their furthering or hindering effects, can be more clearly recognised and estimated ; and it is juster and more logical to name them first. We can conceive why the habitations of the savage races are principally to be found on the extreme borders of the inhabited world, in the cold and hot regions, in remote islands, in secluded mountains, in deserts. We understand their backward condition in parts of the earth which offer so few facilities for agriculture and cattle-breeding as Australia, the Arctic regions, or the extreme north and south of America. In the insecurity of incompletely developed resources, we can see the chain which hangs heavily on their feet, and confines their movements within a narrow space. As a consequence, their numbers are small, and from this again results the small total amount of intellectual and physical accomplishment, the rarity of eminent men. the absence of the salutary pressure exercised by surrounding masses on the activity and forethought of the individual, which operates in the division of society into classes, and the promotion of a wholesome division of labour. A partial consequence of this insecurity of resources is the instability of natural races. A nomadic strain runs through them all, rendering easier to them the utter incompleteness of their unstable political and economical institutions, even when an indolent agriculture seems to tie them to the soil. Thus it often comes about that in spite of abundantly-provided and well-tended means of culture, their life is desultory, wasteful of power, unfruitful. This life has no inward consistency, no secure growth ; it is not the life in which the germs of civilization first grew up to the grandeur in which we frequently find them at the beginnings of what we call history. It is full rather of fallings-away from civilization, and dim memories from civilized spheres which in many cases must have existed long before the commencement of history as we have it. If, in conclusion, we are to indicate concisely how we conceive the position of these races as compared with those to which we belong, we should say, from the point of view of civilization these races form a stratum below us, while in natural parts and dispositions they stand in some respects, so far as can be seen, on a level with us, in others not much lower. But this idea of a stratum must not be understood in the sense of forming the next lower stage of development through which we ourselves had to pass, but as combined and built up of elements which have remained persistent, mingled with others which have been pushed aside or dropped into the rear. There is thus a strong nucleus of positive attributes in the "natural" races ; and therein lies the value and advantage of studying them. The negative conception which sees only what they lack in comparison with us is a short-sighted under-estimate.

By the word "civilization" or "culture" we denote usually the sum of all the acquirements at a given time of the human intelligence. When we speak of stages, of higher and lower, of semi-civilization, of civilized and "natural" races, we apply to the various civilizations of the earth a standard which we take from the degree that we have ourselves attained. Civilization means *our* civilization. Let us assume that the highest and richest display of what we conceive by the term is to be found among ourselves, and it must appear of the highest importance for the understanding of the thing itself to trace back the unfolding of this flower to its germ. We shall only attain our aim of getting an insight into the nature and

essence of civilisation when we understand the impelling force which has evolved it from its first beginning.

Every people has intellectual gifts, and develops them in its daily life. Each can claim a certain sum of knowledge and power which represents *its* civilization. But the difference between the various "sums of acquirement of the intelligence" resides not only in their magnitude, but in their power of growth. To use an image, a civilized race is like a mighty tree which in the growth of centuries has raised itself to a bulk and permanency far above the lowly and transitory condition of races deficient in civilization. There are plants which die off every year, and others that from herbs become mighty trees. The distinction lies in the power of retaining, piling up, and securing the results of each individual year's growth. So would even this transitory growth of savage races—which have in fact been called the undergrowth of peoples—beget something permanent, draw every new generation higher towards the light, and afford it firmer supports in the achievements of predecessors, if the impulse to retain and secure were operative in it. But this is lacking; and so it befalls that all these plants destined for a larger growth remain on the ground and perish in misery, striving for the air and light which above they might have enjoyed to the full. Civilization is the product of many generations of men.

The confinement, in space as in time, which isolates huts, villages, races, no less than successive generations, involves the negation of culture; in its opposite, the intercourse of contemporaries and the interdependence of ancestors and successors, lies the possibility of development. The union of contemporaries secures the retention of culture, the linking of generations its unfolding. The development of civilization is a process of hoarding. The hoards grow of themselves so soon as a retaining power watches over them. In all domains of human creation and operation we shall see the basis of all higher development in intercourse. Only through co-operation and mutual help, whether between contemporaries, whether from one generation to another, has mankind succeeded in climbing to the stage of civilization on which its highest members now stand. On the nature and extent of this intercourse the growth depends. Thus the numerous small assemblages of equal importance, formed by the family stocks, in which the individual had no freedom, were less favourable to it than the larger communities and states of the modern world, with their encouragement to individual competition.

As the essential feature in the highest development of culture, we note the largest and most intimate interdependence among themselves and with past generations of all fellow-strivers after it; and as a result of it, the largest possible sum of achievement and acquisition. Between this and the opposite extreme lie all the intermediate stages which we comprise under the name "semi-civilization." This notion of a "half-way house" deserves a few words. When we see energetically at work in the highest civilization the forces which retain, as well as those concerned with extending and reshaping, the building, in semi-civilization it is essentially the former which are called into most activity, while the latter remain behind and thereby bring about the inferiority of that state of things. The one-sidedness and incompleteness of semi-civilization lie on the side of intellectual progress, while on the material side development sets in sooner. Two hundred years ago, when Europe and North America had not yet taken the giant's stride

which steam, iron, and electricity have rendered possible, China and Japan caused the greatest astonishment to European travellers by their achievements in agriculture, manufactures, and trade, and even by their canals and roads, which have now fallen far towards dilapidation. But Europeans, and the daughter races in America and Australia, have in the last two hundred years not only caught up this start, but gone far ahead. Here we may perceive the solution of the riddle presented by Chinese civilization, both in the height it has reached and its stationary character, and indeed by all semi-civilization. What but the light in free intellectual creation has made the west so far outrun the east? Voltaire hits the point when he says that Nature has given the Chinese the organs for discovering all that is useful to them but not for going any further. They have become great in the useful, in the arts of practical life; while we are indebted to them for no one deeper insight into the connection and causes of phenomena, for no single theory.

Does this lack arise from a deficiency in their endowments, or does it lie in the rigidity of their social and political organisation, which favours mediocrity and suppresses genius? Since it is maintained through all changes of their organisation, we must decide for the defect in their endowments, which also is the sole cause of the rigidity in their social system. No doubt the future alone can give a decisive answer, for it will in the first place have to be shown whether and how far these races will progress on the ways of civilization which Europe and North America vie in pointing out to them; for there has long been no doubt that they will or must set foot on them. But we shall not come to the solution of this question if we approach it from the point of view of complete civilization, which sees in the incompleteness of China and Japan the signs of a thoroughly lower stage of the whole of life, and frequently at the same time signs of an entire absence of hope in all attempts at a higher flight. If they possess in themselves only the capacities for semi-civilization, the need of progress will bring more powerful organs to their head and gradually modify the mass of the people by immigration from Europe and North America. This process may have first raised to its present height many a civilized race of to-day; we may refer to the Russians and Hungarians, and to the fact that millions of German and other immigrants have stimulated in many ways the progress of these semi-Mongols in Europe.

The sum of the acquirements of civilization in every stage and in every race is composed of material and intellectual possessions. It is important to keep them apart, since they are of very different significance for the intrinsic value of the total civilization, and above all for its capacity of development. They are not acquired with like means nor with equal ease, nor simultaneously. The material lies at the base of the intellectual. Intellectual creations come as the luxury after bodily needs are satisfied. Every question, therefore, as to the origin of civilization resolves itself into the question: what favours the development of its material foundations? Now here we must in the first place proclaim that when the way to this development is once opened by the utilisation of natural means for the aims of man, it is not Nature's wealth in material but in force—or rather, to put it better, in stimulus to force,—which must be most highly estimated. The gifts of Nature most valuable for man are those through which his latent sources of force are thrown open in permanent activity. Obviously this can least be brought about by that wealth or so-called bounty of Nature which spares

him certain labours that under other circumstances would be necessary. The warmth of the tropics makes the task of housing and clothing himself much lighter than in the temperate zone. If we compare the possibilities which Nature can afford with those that dwell in the spirit of man, the distinction is very forcible, and lies mainly in the following directions. The gifts of Nature in themselves are in the long run unchangeable in kind and quantity, but the supply of the most necessary varies from year to year and cannot be reckoned on. They are bound up with certain external circumstances, confined to certain zones, particular elevations, various kinds of soil. Man's power over them is originally limited by narrow barriers which he can widen but never break down by developing the forces of his intellect and will. His own forces, on the contrary, belong entirely to him. He cannot only dispose of their application but can also multiply and strengthen them without any limit that has, at least up to the present, been drawn. Nothing gives a more striking lesson of the way in which the utilisation of Nature depends upon the will of man than the likeness of the conditions in which all savage races live in all parts of the earth, in all climates, in all altitudes.

It is due to no accident that the word "culture" also denotes the tillage of the ground. Here is its etymological root; here, too, the root of all that we understand by it in its widest sense.[1] The storage by means of labour of a sum of force in a clod of earth is the best and most promising beginning of that non-dependence upon Nature which finds its mark in the domination of her by the intellect. It is thus that link is most easily added to link in the chain of development, for in the yearly repetition of labour on the same soil creative force is concentrated and tradition secured; and thus the fundamental conditions of civilization come to birth.

The natural conditions which permit the amassing of wealth from the fertility of the soil and the labour bestowed thereon, are thus undoubtedly of the greatest importance in the development of civilization. But it is unsafe to say with Buckle that there is no example in history of a country that has become civilized by its own exertions without possessing some one of those conditions in a highly favourable form. For the first existence of mankind, warm moist regions blessed with abundance of fruits were unquestionably most desirable, and it is easiest to conceive of the original man as a dweller in the tropics. But, on the other hand, if we are to conceive of civilization as a development of human forces upon Nature and by means of Nature, this can only have come about through some compulsion setting man amid less favourable conditions where he had to look after himself with more care than in the soft cradle of the tropics. This points to the temperate zones, in which we may no less surely see the cradle of civilization than in the tropics that of the race. In the high plateaux of Mexico and Upper Peru we have land less fruitful than the surrounding lowlands, and accordingly in these plateaux we find the highest development in all America. Even now, with cultivation carried to a high pitch, they look as dry and barren as steppes compared with the luxuriant natural beauties of many places in the lowlands, or on the terraces not a day's journey distant. In tropical and sub-tropical

[1] [Of course its employment to denote the cultivation or refinement of the mind and manners (which though found in classical Latin seems comparatively recent in English) is a mere metaphor, without any suggestion of the fact noticed in this paragraph.]

countries the fertility of the soil generally diminishes at high elevations, and in whatever climatic conditions, high plateaux are never so fruitful as lowland, hilly countries, and mountain slopes. Now these civilizations were both situated on high plateaux; of that in Mexico, the centre and capital, Tenochtitlan—the modern city of Mexico—lay at a height of 7560 feet, while Cuzco, in Peru, is no less than 11,500. In both these regions temperature and rainfall are considerably lower than in the greater part of Central and South America.

This brings us to the recognition of the fact that, though civilization in its first growth is intimately connected with the cultivation of the soil, as it develops farther there is no necessary relation between the two. As a nation grows its civilization sets itself free from the soil, and, in proportion as it develops, creates for itself ever fresh organs which serve for other purposes than enabling it to take root. One might say that in agriculture there resides a natural weakness, which may be explained not only through want of familiarity with weapons, but through the desire of possession and a settled life enfeebling to courage and enterprise. We find, on the contrary, the highest expression of political force among the hunter and shepherd races, who are in many respects the natural antipodes of the agriculturists—the shepherds especially, who unite agility with the faculty of moving in masses, and discipline with force. The very faculties which are a hindrance to the agriculturist in developing that power, can here be turned to advantageous account,—the absence of settled abode, mobility, the exercise of strength, courage, and skill with weapons. And, as we look over the earth, we find that in fact the firmest organisations among the so-called semi-civilized races result from a blend of these elements. The distinctly agricultural Chinese have been ruled first by the Mongols, then by the Mantchus; the Persians by sovereigns from Turkestan; the Egyptians successively by Hyksos, or shepherd kings, Arabs, and Turks—all nomadic races. In Central Africa the nomadic Wahuma founded and maintained the stable states of Uganda and Unyoro, while in the countries that surround the Soudan every single state was founded by invaders from the desert. In Mexico the rougher Aztecs subdued the more refined agricultural Toltecs. In the history of places in the borderland between the steppe and cultivated lands a series of cases will be found establishing this rule, which may be recognised as a historical law. Thus the reason why the less fertile high plateaux and the districts nearest to them have been so favourable to the development of higher civilization and the formation of civilized states, is not because they offered a cooler climate and consequent inducement to agriculture, but because they brought about the union of the conquering and combining powers of the nomads with the industry and labour of the agriculturists who crowded into the oases of cultivation but could not form states. That lakes have played a certain part as *points d'appui* and centres of crystallisation for such states, as seen in the cases of Lake Titicaca in Peru, the lagoons of Tezcoco and Chalco in Mexico, Lakes Ukerewe and Tchad in the interior of Africa, is an interesting but less essential phenomenon.

Beyond the historic operation of climatic peculiarities in favouring or checking civilization, differences of climate interfere most effectually by producing large regions where similar conditions prevail—regions of civilization which are disposed like a belt round the globe. These may be called civilized zones. The real zone of civilization, according to all the experience which history up to the present day puts at the disposal of mankind, is the temperate. More than one group of facts

corroborates this. The most important historical developments, most organically connected, most steadily progressing in and by means of this connection, and externally most exciting, belong to this zone. That it was no accident which made the heart of ancient history beat in this zone on the Mediterranean Sea, we may learn from the persistency of the most effective historical development in the temperate zone even after the circle of history had been widened beyond Europe, ay, even after the transplantation of European culture to those new worlds which sprang up in America, Africa, and Australia. No doubt an infinite number of threads are plaited into this great web; but since all that races do rests ultimately upon the deeds of individuals, the one which has been most fruitful in results is undoubtedly the crowding together in the temperate zone of the greatest possible number of individuals most capable of achievement, and the arrangement in succession and comprehension of the individual civilized districts in one civilized belt, where the conditions were most favourable to intercourse, exchange, the increasing and securing of the store of culture; where, in other words, the maintenance and development of culture could display its activity on the largest geographical foundation.

Indian Mirror from Texas. (Stockholm Ethnographical Museum.)

Old semi-civilizations, whose relics we meet with in tropical countries, belong to a period when civilization did not make such mighty demands upon the labours of individuals, and when for that very reason its blossom sooner faded. A study of the geographical extension of old and new civilization seems to show that as the tastes of civilization grew, the belt comprising it shrank into the regions where the great capacity for achievement co-existed with the temperate climates. This observation is important for the history of the primitive human race and of its extension, and for the interpretation of the relics of civilization in tropical countries. Another mode in which civilization may perish is through the absorption of higher races by lower, who profit by the advantage of better adaptation to conditions of hardship. The despised Skraelings have merged themselves in the Northmen of Greenland. And has not every group of Europeans that has penetrated the Arctic ice-wastes, during the period of its stay in those dreary fields, been obliged to accustom itself to Eskimo habits, and to learn the arts and dexterities of the Arctic people in order successfully to maintain the fight with Nature's powers in the Polar zone? But so has many a bit of colonisation on tropical and polar soil ended in falling to the level of the wants of the natives. The colonising power of the Portuguese in Africa, the Russians in Asia, lies in their ability to do this more effectually than their competitors.

Yet a civilization, self-contained and complete, even with imperfect means, is morally and æsthetically a higher phenomenon than one which is decomposing in the process of upward effort and growth. For this reason the first results of the contact between a higher and a lower civilization are not delightful where the

higher is represented by the scum of a world, the lower by people complete in a narrow space and contented with the filling up of their own narrow circle. Think of the first settlements of whalers and runaway sailors in countries rich in art and tradition like New Zealand and Hawaii, and of the effects produced by the first brandy-shop and brothel. In the case of North America, Schoolcraft first pointed out the rapid decay which befell all native industrial activity as a result of the introduction by the white men of more suitable tools, vessels, clothing, and so forth. European trade provided easily everything which hitherto had had to be produced by dint of long-protracted, wearisome labour;[1] and native activity not only fell off in the field where it had achieved important results, but saw itself weakened, and lost the sense of necessity and self-reliance, and so in course of time art itself perished. As we know, the same is going on to-day in Polynesia, in Africa, and among the poorest Eskimo. In Africa it is a declared rule that on the coast you have a region of decomposition, behind that a higher civilization, and the best of all in the untouched far interior. Even the art of Japan, independent as it was, deteriorated after a glimpse of artistically inferior European patterns.

§ 5. LANGUAGE

Language is a universal faculty of modern mankind—Power of natural races to learn languages—Changes in languages—Is there a relation between racial and linguistic peculiarities?—Origin, growth, and decay of language—Fossil words: dialect and language—Relation between language and degree of civilization—Poor and rich languages—Modes of expressing number and colour—Gesture—Speech—Writing.

"MAN is so endowed, so circumstanced, and such is his history, that speech is everywhere and without exception his possession. And as speech is the property of all men, so is it the privilege of humanity; only man possesses speech." Thus Herder; and we may add that mankind possesses it in no materially different measure. Every people can learn the language of every other. We see daily examples of the complete mastery of foreign languages, and therein the civilized races have no absolute superiority over the savage. Many of the persons in high position in Uganda speak Swahili, some Arabic; many of the Nyamwesi have learnt the same language. In the trading centres of the West African coast there are Negroes enough who know two or three languages; and in the Indian schools in Canada nothing astonishes the missionaries so much as the ease with which the youthful Redskin picks up French and English.

The media of language, sounds no less than the accompanying gestures, are very similar all the earth over; and the inner structure of language not very discrepant. It may be said that human language is one at the root, which strikes deep into the human mind; but it has parted into many very various branches and twigs. Innumerable languages, diverging from each other in every degree, dialects, sister and daughter languages, independent families of languages, fill the homes and homesteads of mankind with varied tones. Some races can still pretty well understand each other; in some languages, a little farther removed, even a

[1] [Cf. Lang, *Myth, Ritual, and Religion*, vol. i. p. 187, "He created the white man to make tools for the poor Indians," said the Winnibagoes to a white inquirer.]

superficial observer detects similarities; in others these lie so deep that only science can find them. Lastly, a great number are to all appearance quite different—not only in the words but in their structure, in the relations they express, the parts of speech which they distinguish. But these distinctions are by no means associated with mental differences in the speakers. Individuals of every variety of endowment use the same language, while minds equally endowed and working on the same lines cannot make themselves understood to each other. Nor does language go with geographical, often not with racial, distinctions. How much wider is the gap between the Englishman and the English-speaking Negro than that between the Chinese and the Micronesian who linguistically is so far from him! The importance of language to ethnology must be sought elsewhere than in proof of racial affinity based on affinity of speech. Language must always appear as the preliminary condition to all the work of civilization among mankind. It may be called the first and most important, even the characteristic, implement of man. But, like every other tool, it is liable to alteration. In the course of centuries a word can assume very various meanings, can disappear altogether, can be replaced by some expressly-invented word, or one taken from another language. Like a tool, it is laid aside and taken up again. Not only do individuals lose their mother-tongue, like Narcisse Pelletier who, after twelve years in the Australian bush, became himself a savage, or the Akka Mianis who, brought as boys to Italy, had in a few years wholly forgotten their native speech; but whole races abandon one language and take to another, as if it were a suit of clothes. Some of the acquirements of civilization are more permanent than language, as the science of cattle-breeding. If the comparative study of religion teaches us that the names change while the thing remains, we may find here good evidence for the higher degree of changeableness shown by language in comparison with other ethnographic characteristics. We should not think it necessary to linger over a point so obvious to all who know anything about the life of races, were it not that linguistic classification is still apt to be mixed up with anthropology and ethnography. Even so great an authority on philology as Lepsius has found it necessary to protest against the notion that races and languages correspond in origin and affinities, as is still far too largely supposed. "The diffusion and mingling of races goes its way: that of languages, though constantly affected by the other, its own—often very different. Languages are the most individual creation of races, often the most immediate expression of their minds; but they often escape from their creators, and overspread great foreign peoples and races, or die out, while those who formerly used them live on, speaking quite other tongues." It is clear that in the light of such deeper considerations, conceptions like that of an Indo-Germanic race, a Semitic race, a Bantu race, are not only valueless, but to be wholly rejected as misleading; and that, incalculably great as may have been the value and influence of languages as a support and staff in the mental development of mankind, their importance as an indication of distinctions within mankind is uncommonly small. While hunting-savages like the Bushmen speak a finely-constructed and copious language, we find among the race which has developed the highest and most permanent civilization of Asia what, according to evolutionary views, must be a most simple language,—the uninflected Chinese with its 450 root words, which may be put together like pieces in a puzzle and taken apart again, remaining all the time unaltered. Under these circumstances

it is no doubt possible to make a pedigree of languages, but we cannot be expected to believe that anything is thereby gained towards the pedigree of mankind, when we find a poorly organised language spoken by one of the highest races, and a highly organised one by one of the lowest. The newer philology appears indeed to promise less than formerly in the way of a universal pedigree of languages. Monosyllabic speech, which once grew at the root of the tree of language, is now thought to owe its poverty and stiffness rather to retrogression than to undevelopment, while the South African clicks, once compared with the chatter of birds and other animals, are now regarded less as survivals from the brute than as the characteristic expression of linguistic indolence and decay. We hear no more about remains of the primitive speech, but see in this domain only development and retrogression.

The universality of language is the simple result of the fact that all portions of mankind have existed long enough to develop the germs of their capacity for speech to the point at which we can apply the term language. Not only Haeckel's Alali has long passed into oblivion; all his successors with their imperfect or childish speech are no more. But here the universalness extends farther; modern languages are organised to a very similar pitch. Herein language is like certain universal arts or implements, which are just as good among savage as among civilized folk. Does not the like hold good with the universal spread of the religious idea, the artistic impulse, the simpler utensil? At the basis of speech lies the desire to impart; it is thus the product not of the single man but of Man in society and history. For the sake of and by means of imparting we acquire our earliest knowledge: it develops and enriches the language; it creates its unity by limiting the exuberance of dialectic variations. We speak, to be understood; we hear and learn, to understand; we speak as is intelligible, as others do, not as we ourselves want to do. So far speech is the dearest and most universal sign of the important effect of social life in limiting individualism.

All languages now existing are old in themselves or descended from old families; all bear the traces of historic development; all are far from their first origin, and for their interpretation philology has now laid aside the "bow-wow" theory. Itself drawn from the mobile mouth of the living man, and remaining close to the mind, the starting-point of living expression, language bears the stamp of life, constant change. Even if it survives the generations of those who spoke it, yet it lives with them and undergoes changes; dying at last itself. The old Egyptian died even before the Egyptian civilization; old Greek did not long survive the independent existence of the Greek race; Latin fell with Rome.[1] These three languages did not die childless; they survive in Coptic, Modern Greek, and the Romance languages respectively. More rarely do languages perish without successors as Gothic has done. Yet even this has been survived by languages nearly akin to it, which represent the family. Basque, standing solitary

[1] [This statement seems to need qualification. Müller and Donaldson give several pages of names of "old" Greek authors subsequent to B.C. 146, including Meleager, Dionysius, Strabo, Philo Judaeus, Epictetus, Plutarch, Appian, Galen, Lucian, Clement, Eusebius, Chrysostom, Longus, Anna Comnena, Demetrius Chalcondyles. As to Latin, if we knew when the "fall of Rome" occurred we could better test the accuracy of the illustration. Certainly the language continued to thrive for nearly 1000 years after the removal of the Emperor's residence to Byzantium. But to say that a language *dies* is a misleading metaphor. No one generation notices any material change.]

as it does with no near kinship to any contemporary tongue, will die, and with it a primeval family will become extinct. It is only the mutability of languages that prevents us from seeing in them the characteristic marks of an old connection, the support of that uniformity which we find in myths and material objects. Yet we venture to predict that success will one day attend the effort to ascertain the elements of speech in their world-wide distribution.

Meantime in the life of every language a gradual dying off and renewal is taking place in many forms. Words become obsolete, pass out of use, or survive only in religion and poetry. It has been pointed out that since 1611, 388 words have become obsolete in English. There are besides innumerable changes in pronunciation, spelling, and meaning. Old forms of speech still in use, but long become unintelligible, are frequent in the unthinking life of the natural races. Thus a Fijian in battle challenging his opponent, shouts *Sai tava! Sai tava! Ka yau mai ka yavia a bure*, that is "Cut up! Cut up! the temple receives." But no man knows what the words mean, though they are held to be very ancient. How with new things, new words and terms of speech are imported, or rather import themselves, into language, the age of railways and steamers has shown; by their means the language of all civilized races has been enriched with hundreds of new words. The Azandeh or Nyam-Nyams assert that many words which were in use among their ancestors are at present no longer employed. Junker believes in a rapid transformation of the African languages; while Lepsius attaches little value to their store of words, and describes even their syntactical usage as remarkably unstable. Alteration is naturally more frequent in unwritten languages than where writing has produced a certain petrifying effect on speech; and if we must admit the assertion of philologists that the life-blood of a language is to be found not in its written form but in dialects, we can understand that we have to regard languages as organisms no less variable than plants or animals. While writing tends to fix a language in a given form, the more fruitful and wider intercourse of races that have writing has at the same time a tendency to widen the area over which a dialect or a language is distributed. We may put it that races without writing speak only dialects, while languages are possessed by those alone who write. But where is the boundary between dialect and language? At the present day we understand by a language a dialect which has become fixed by writing and widely spread by dint of intercourse. Especially is the literary language rather an artificial than a natural form of speech. Dialects we conceive as languages less copious, less definitely settled and brought under rule, and hence more exposed to change, even of an arbitrary kind. But this is only so long as we compare them with written languages. Of the 300 tribes of the many-languaged Colchis, to do business with whom the Romans, as Pliny tells us, required 130 interpreters, which spoke a language, which a dialect? At this stage only dialects are spoken, every tribe having its own; and we need not be so much surprised at the Colchians when seventy dialects are reckoned in modern Greek. What produces language and what preserves dialects we can see by comparing the wide diffusion of Burmese in the thickly-peopled countries of Burma, Pegu, and Arakan with their brisk commerce, and the far more limited area of languages in the hill countries of the Upper Irawaddy, where Gordon collected twelve dialects in the neighbourhood of Manipur alone, and where often thirty or forty families speak a dialect of their own, unintelligible to others. This is the scale by which

we have to measure the frequent statements as to the immoderate number of languages among small nations. The multiplicity of the dialects spoken by the Bushmen which show differences even between groups separated only by a range of hills or a river, is referred by Moffat exclusively to the fact of their stage of culture allowing of no common centre, no common interests, in short neither possessing nor producing anything which might contribute to the fixing of a standard language. It is interesting to notice that the language of the Bechuana Bushmen, the Balala, who live as a race of pariahs with and among the Bechuanas, is a much-altered idiom showing many peculiarities in different groups, while their masters the Bechuanas maintain and propagate their language, the Sechuana, in a pure form by means of public discussions and frequent meetings for conversation, singing, and the like.

Yet we must beware of under-estimating the effect of customary speech, which also is a conservative force, and assuming a too easy fluidity in linguistic forms. We learn from Schweinfurth that the Djurs and Bellandas, though far apart, have preserved the Shillook language almost unaltered. The latter are divided from the Djurs by the whole breadth of the Bongos, and these again are separated from the Shillooks. Consider too the slight differences in the most distant Bantu dialects. We can only assume some great error of observation when S. F. Waldeck, writing to Jomard in 1833 from the neighbourhood of Palenque, says that he could no longer use a vocabulary which had only been prepared since 1820. We have good cause to know how carelessly vocabularies often are compiled. Even in the best of those made by English or Americans for savage languages a large number of words are, owing to arbitrary transliteration, quite useless for a Frenchman or German in intercourse with "natives."

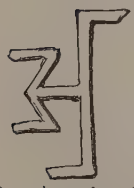
In any case, however, it may be taken as a rule that the larger a race is, the more intimate its intercourse, the more firmly articulated its society, the more uniform its usages and opinions; so much more stable will its language be. Public speaking, popular songs, national laws, oracles, exercise in a lesser degree the same influence as writing. They set obstacles in the way of the natural tendency of language to flow into the countless streams of dialect, and give permanence to speech-formation which, without these external influences, would have enjoyed but a transitory existence.

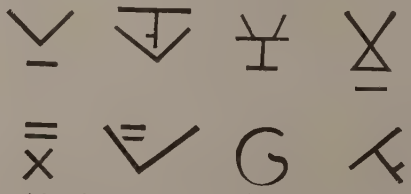
These facts show clearly where we have to look for the real and essential distinctions in the degrees of linguistic development. Permanent growth enhances the value of language as of civilization. The language which has means to express anything without becoming obscure through redundancy, which offers the most complete, most intelligible, and shortest methods of expressing ideas, whether abstract or concrete, will have reached the highest stage of development. And hence it would follow that a thorough parallelism rules between the development of language and that of culture, since the highest culture requires and creates the most copious means of spoken expression. Without prejudice to the varieties in the structure of language, the possessors of the highest culture will thus speak a language which deserves the name of a first-class implement. But by this term we do not understand merely that which best fulfils the end for which it is designed, since the Australian languages in all their poverty perfectly subserve the simple wants of those who speak them. We rather look upon languages as special organisms with a development of their own. Just as in the

class of mechanical tools, we should give the plough a higher rank than the axe, although the latter fulfils simple needs just as well as the former meets greater requirements; so must we hold the supple yet firmly-articulated, clear though copious languages of the Indo-Germanic family of more account than the poorer idioms of the Bantu.

But if the language of a race be the measure of the stage of civilization it has reached, we must be cautious in drawing conclusions from one to the other; for language is only one among modes of expression, and has its own life. Least of all should the mode in which it deals with particular conceptions be taken as such a measure. Counting and reckoning are doubtless very important things, upon the perfection of which a great deal of the mental development, and consequently the culture, of a race depends. But in view of the alleged inability of many savage races to think higher numbers than 3 or 5, attention must generally be drawn to the fact that the inefficiency of a tool does not always imply a corresponding inability in the hand using it. In reply to the constant repetition of the statement that as the languages of these races contain no numerals above 3, the people cannot count beyond 3, Bleek has very properly pointed out that this conclusion is as much justified as would be the conclusion that, as the French say *dix-sept* and *quatre-vingts*, they cannot count beyond 10 or 20. Greek had a word for 10,000; Hindustanee has words for 100,000 (*lac*), and 10,000,000 (*crore*); we have none. The Nubians, who can only count to 20 in their own language, employ Arabic words for higher numbers; at the same time calling 100 by their own word, *imil*. Just the same holds good in colour-names, the deficiency of which among many savage races and many peoples of antiquity was unhesitatingly ascribed to a corresponding deficiency of perception. Here they started from the unproved assumption that expression corresponds exactly to perception—in this instance that the number of colour-terms corresponded to that of the various degrees of colour which pass through the retina to be reproduced in consciousness. Erroneous as is this supposition, it is no less instructive for the recognition of the true nature of language, to observe that many races, otherwise uncultivated, can show an unusually copious list of colour-terms. Both copiousness and deficiency alike spring from immaturity. We just as often find the same name used to denote different colours, as the most different names applied to the same colour. This is merely the copiousness of confusion, and no token of high development. After testing a native of Queensland, Alfred Kirchhoff wrote: "It is asserted that the Hottentots have thirty-two words to express colours; if so, they are exceeded more than two-fold by these Australians of Queensland, a list of whose colour-names yielded as many as seventy." A light is thrown on the way in which this excessive wealth of terms arises by the fact that the greatest cattle-breeders among the African Negroes, the Hereros, Dinkas and their kin, who are passionately devoted to that occupation, possess the greatest conceivable choice of words for all colours—brown, dun, white, dapple, and so on. The Herero has no scruple about using the same word to denote the colour of the meadows and of the sky; but he would regard it as a sign of gross mental incapacity if any one were to comprise in one word the various gradations of brown in different cows. So among the Samoyedes there are eleven or twelve designations for the various greys and browns of reindeer. The nautical vocabulary of Malays and Polynesians shows similar development; but not far off we find great barrenness, the result of

indolence. Nor is it only "natural" races who are content with one word for different colours; the same want of fertility in the formation of language holds good in higher stages. The peasant of central Germany frequently includes violet under brown, and the Japanese as a rule calls blue and green indifferently *ao*.





Owner's marks: the upright column from the Ainu (after Von Siebold); the others, rudimentary writing from the Negroes of Lunda (after M. Buchner).

Requirements decide what the wealth of language shall be. For the most civilised among modern European nations the rule seems to hold that a man of average education actually uses only a very small part of the words which his language contains. The English language claims to possess 100,000 words, yet an English field-labourer gets along as a rule with about 300. Where races of a higher civilization come in contact with a lower, the language of the latter easily lapses into impoverishment, since it takes over a number of words from the former. But then its impoverishment allows no conclusion as to the degree of civilization, but can only be looked upon as a historical fact in the life of that language. A good example is the freedom with which Nubian has been supplemented by Arabic. The Nubians have their own special words for sun, moon, and stars; but the indications of time, year, month, day, hour, they borrow from the Arabs. With them *essi* serves for water, sea, river; but the Nile is called *Tossi*. For all native animals, domestic or wild, they have names of their own; Arabic for all relating to building and navigation. Spirit, God, slave, the ideas of relationship, the parts of the body, weapons, the fruits of the earth, and everything connected with breadmaking, have Nubian names; on the other hand servant, friend, enemy, temple, to pray, to believe, to read, are Arabic. All metals have Arabic names, except iron. "They are *rich* in Berber, *poor* in Arabic."

How much the very mixture of tongues does to enrich a language, and above all to adapt it to its purpose, is shown among European languages by English, which includes just about as many words of Teutonic as of Romanic origin. Many of the despised foreign words are really indispensable. We need only think of the planting and engrafting that has had to be undertaken in the garden of every African, Polynesian, and American tongue in order to make it possible for the missionaries to interpret the simplest facts of Scripture history and the writings which form the foundation of Christianity. In every mission the rendering of "God" especially has a history rich in difficulties and errors.

Glancing at the heavy burden laid upon those who are naturally without speech, we will only call to mind the interesting fact that in Kazembe's kingdom Livingstone met with a deaf and dumb man, who used just the same signs as uneducated persons of his kind in Europe. It is obvious that the language of signs and grimaces is all the more tempting to use in proportion as language proper is

defective and simple, and the less varied and abstract the ideas to which it can lend expression. By frequent use this kind of language can be brought to a perfection of which we, who always have thousands of words at command, can form no conception. Races deficient in culture can put far more into the simplest winks and gestures than we are in the habit of doing. Livingstone tells us that when Africans beckon to any one they hold the palm of the hand downwards, as though to combine the idea of laying it on the person and drawing him towards them. If the person wanted is close by, the beckoner reaches out his right hand in a line with the breast, and makes a movement as if he wanted to catch the other by closing his fingers and drawing him towards himself; if the other is farther off, the movement is emphasised by holding the hand as high as possible and then bringing it downwards and rubbing it on the ground. But gesture language has not been developed to a real system of signals among the Africans, who for that purpose use the drum language (drum signalling, it may be said, extends from the Cameroons through Central Africa to New Guinea, thence to the Jivaros in South America). Its highest cultivation seems to be reserved for the inventive, and at the same time taciturn, Indians of North America. Mallery, in his great work on the sign and gesture language of the Indians, has given a list of principal signs, by combining which the most various sentences can be formed. Here belong also fire and smoke signals; the whistling language of Gomera, in which shepherds converse over great distances, make appointments, and so forth; and the like. Lichtenstein gives a pretty instance of the expression of numerical conceptions by means of signs. He relates that a Hottentot, who was disputing with his Dutch master about the length of time that he had yet to serve, contrived to explain the difference of their respective views to the magistrate. "My Baas," he said, "will have it I have got so long to serve——" Here he stretched out his left arm and hand, and laid the little finger of the right hand on the middle of his forearm; "but I say that I have only got so long——" And therewith he moved his finger to the wrist. American Indians often carry a complete measure with various subdivisions tattooed on one arm; this brings us to the rudiments of writing.

Among all races of the earth we find simple methods of fixing a conception, which present themselves either in picture-writing or in sign-writing as allied inventions. Yet both are familiar to the youth of all races in later times. Our boys use a form of picture-writing when they draw an unpopular schoolfellow on the door of his house with a donkey's head. But adults who possess no higher form of writing are able, by means of pictures placed in a row, to express a good deal more than isolated notions. As soon as by mutual consent a conventional character has been stamped on these representations, making them intelligible to wide circles, they attain the stage of picture-writing. Signs can only serve a purpose defined by mutual agreement, as, for instance, marks of ownership simply express the fact that the article upon which they are painted or cut has such and such a definite man for its owner. Many signs which are hardly recognisable under the ornamental character which they often assume, and which brings them nearer to art, may have sprung from ownership marks of this kind, or be directed to make a notion plainer, as when the road is indicated by a foot going or a hand pointing in a certain direction. But then they have already reached the boundary at which their arrangement in succession brings us to a higher stage of develop-

ment. The "Wabino song of the Ojibbeway Indians," represented on our coloured plate entitled "Indian picture-writing," gives an illustration of the way in which not only one idea but a whole series of statements can be expressed by simple means to which a definite sense is attached; all the higher kinds of writing have sprung from picture-writing. This descent is recognisable in the Mexican and Egyptian hieroglyphics, but is obliterated in the Chinese; but traces may still be noticed everywhere; even in the cuneiform writing we may find echoes of the picture-writing from which it sprang. In the Egyptian hieroglyphics an ox or a star indicate the things themselves, but besides this, even in the very oldest inscriptions going back to B.C. 3000, they also denote certain definite sounds. In the Mexican picture-writing signs of things and signs of sounds were similarly blended. A monosyllabic language like Chinese, which denotes different words by means of one and the same syllable, makes use of signs of things which indeed are now hardly recognisable in order to define phonetic signs for syllables. The Japanese, on the other hand, for the purposes of their language, which, being polysyllabic, is more adapted to phonetic writing, arranged a really phonetic script out of the Chinese letters. In a more decided fashion the Phœnicians did the same when they dropped the superfluous signs used by the Egyptians to denote things, and only adopted such hieroglyphs as were most necessary for writing down the sounds. The Phœnician names for the letters made their way into Greece, and passed into all western "alphabets." Thus, from obviously manifold beginnings of picture-writing, grew up, in one spot of the earth only, one of the finest implements of human thought—the art of writing by means of letters of the highest pliancy, adapted to all languages, and in its development into telegraphy and shorthand attaining the highest possibilities of compressed expression of thought. Therewith mankind achieved an extraordinarily important step in the progress of its development, for in fixing and securing tradition, writing fixed and secured civilization itself, in the essence of which we have found the connection of generations based upon tradition to be the living, we may say the inspiring nucleus.

§ 6. RELIGION

Difficulty of the subject—Have "natural" races religion?—Are their ideas survivals from a higher sphere of thought, or germs to be developed later?—Hawaiian Hades-legend—The origin of all religion lies in the search for causes—Phenomena which stimulate this search: great natural phenomena—Superstitions connected with animals—Sickness, dreams, death, have an even more powerful effect than natural phenomena—Ascription of souls to all objects—Fetishes—Idols—Temples—Modes of burial—The idea of a future life—Morality in religion—Classification and propagation of religions—Missionary activity.

THE inquiry into the religious life and thought of natural races is difficult. They give information about their conception of the Supreme Being only with reluctance, often incompletely, or with the intention of deceiving. Very often it may really not be easy to them to give such information, for the reason that they have no clear ideas on the subject. When Merensky asked some Christian Basutos what they had thought about God while they were still heathens, they said: "We did not think about God at all, we only dreamt." Religious ideas as clear and simple as monotheism are not found among savages. Not only does the entire

thought-life of these people move in pictures of dreamy indefiniteness, in many cases without sequence or connection; they lack the secure progress and development of thought from one generation to another which brings about the organic growth of the thought of a former age into that of the present. Such religious ideas as do exist are often known only to a few elders who guard them jealously. Even where this does not occur, the dislike to giving away the secrets of religion often makes it possible to get at most a mutilated fragment.

We must therefore be on our guard against too narrow a notion of the religious surmises and imaginings of "natural" races. In one respect they are always comprehensive. All mental stirrings and strivings which are not directed to the immediate practical aims of life find in them their expression. Religion is at once philosophy, science, historic tradition, poetry. Cranz says of the Greenland *angekoks*, "They may be called the Greenlanders' physical-science teachers, philosophers, doctors, and moralists, as well as soothsayers!" In religion there is under all circumstances much room for conjecture and inquiry. But we must not start with the view that everything which exists deep down must equally show itself on the surface. The most unfair judgments, full of intrinsic contradictions, arise from this prejudice. How shallow is the view of Klemm that among the Arctic races every one believes as he likes! "No common religion exists!" Klemm has quite misunderstood a remark of Cranz. One who knew the Namaqua Hottentots well, Tindall the missionary, has also made the statement that "in regard to religion their minds seem to have been almost a *tabula rasa*." This has no doubt been understood to mean that they had scarcely any inkling of religious matters. Certainly in the soul of a Namaqua there is no intelligible writing to be read, clearly proclaiming any religious message; but survivals of an intelligible writing, in many places obliterated, are not lacking. And so indeed Tindall presently qualifies his own statement by saying that the fact of their language containing appellations for God, spirits, the evil one, seems to indicate that they were not wholly ignorant of these matters; even though nothing further appears in the terms of the language or in ceremonial usages and superstitions to give evidence of anything more than a crude conception of a spiritual world. He believes that the superstitious tales which travellers have picked up from them and narrated as religious reminiscences, were regarded by the natives themselves as mere fables, related only with a view to entertain, or in order to give some insight into the habits and peculiarities of wild beasts. This expresses far too

Melanesian sea deity, from San Christoval. (After Codrington.)

narrow an apprehension of the idea of religion; if these usages and tales are not religion, at least they are of the elements from which, as civilization progresses to development, the crystal of a purified belief is built up. When we find ourselves in the course of our description in presence of the question: Is religion to be seen in usages, views, legends? we shall put the counter-question: Is religion to be apprehended only as a cut-and-dried conception, or is not the truer and fairer way of looking at it to hold that the elements of religion are to be recognised in every department of human thought and feeling which can rise above the affairs of daily life, and above this corporeal existence, into the realm of unknown causes? Rarely, no doubt, among "natural" races shall we meet with religion in that narrow sense; but, on the other hand, we shall not analyse a single race on its spiritual side without laying bare the germs and root-fibres of religious feeling. Nay, we shall arrive at recognising that the spiritual side of a race nowhere finds more copious utterance than in religious matters. Beside the material destitution of the Bushmen, are not their myths suggestive of a treasure? From scientific conviction we must unhesitatingly endorse the verdict which was pronounced by the religious feeling of V. von Strauss in opposition to this tendency to degrade: "Complete absence of religion, true atheism, may be the result of an undermining, soul-deadening over-culture; but never the effect of crude barbarism. This, in its deepest degradation, always retains the craving for religion, with a corresponding faculty for religion, however faultily and confusedly this may operate."

Ethnography knows no race devoid of religion, but only differences in the degree to which religious ideas are developed. Among some, these lie small and inconspicuous as in the germ, or rather as in the chrysalis; while among others they have expanded in a splendid wealth of myths and legends. But we must not always want to see primitive conditions in their imperfections. Let us remember how in Abyssinian Christianity, Mongolian Buddhism, Soudanese Mahommedanism, great religious thoughts have dwindled away beyond recognition. The propagative force of religious ideas is as great as the certainty that they will dwindle where they are cast forth into the wilderness of the materialistic savage life, isolated and cut adrift from any organic connection with a great living mythology, or a system of teaching imbued with spirituality. Already we find debased fragments of Christian or Mussulman ideas in Indian and Polynesian, Malay and African myths; and if we had no inkling as to the history of their introduction, they would appear as evidences of an underlying germ of monotheism. The poetry of "natural" races again in any case arouses a suspicion that some twig from the tree of European story and fable has there dropped into the soil, and with the power of reproduction which is peculiar to these creations of fancy, has straightway thrown up scions in foreign ground. In a notice of Callaway's *Nursery Tales of the Zulus* (1866), Max Müller has connected with this the deeper thought that like our folk-lore stories and so forth, at least so far as they deal with ghosts, fairies, and giants, these point to a remote civilization, or at least to a long-protracted process of growth. "Like the anomalies of language, they show by their peculiar character that there was an epoch when what is now devoid of rule or sense formed itself with a definite object and according to laws." We venture even to predict that in the religion of the most remote African and Australian peoples, just as in the rest of the culture possessed

by them, will be found germs or survivals of Indian or Egyptian tradition. The Indian elements in the Malay religion belong now to the domain of proved facts, and perhaps reach as far as Hawaii and beyond, even to America.

The profundity of the thought must not be measured by the imperfection of the expression. In considering a mythology like the Polynesian, it must not be overlooked that this multiform weft of legend is often less like clear speech than like the prattle of a child, and that one has more often to attend to the What? than to the How? Often a similarity of sound, an echo, suffices the sportive fancy of these people as an attachment for far-reaching threads. The same aspect of a supra-sensual relation looks far more impressive on the parchment of some manuscript of a Greek poet than in the oral tradition of a Polynesian or African priest or sorcerer. But if we try to extract the more intelligible sentences in the prattle of the savage we get a picture which is in its essence not far inferior to the more adorned poetical expression. Let us compare a Hawaiian legend of the under-world with its parallels in Greek mythology. A certain chief, inconsolable for the loss of his wife, obtained from his priest, in answer to his prayers, the company of the chieftain's god as his guide into the kingdom of Milu. They journeyed to the end of the world, where they found a tree which was split; on this they slid down to the lower regions. The god hid himself behind a rock, and after smearing the chief with an ill-smelling oil, sent him forward by himself. On reaching Milu's palace, he found the court filled with a crowd of spirits (*Akua*), who were so engrossed in their game that he was able to join them unobserved. When they did notice him they took him for a newly-arrived soul, and jeered at him for a stinking ghost who had stayed too long by his putrefying body. After all kinds of games had been played, they had to think of another, and the chief suggested that they should all pluck out their eyes and throw them together in a heap. No sooner said than done; but the chief took care to observe which way Milu's eyes went. He caught them in the air and hid them in his coco-nut cup. As they were now all blind, he succeeded in escaping to the kingdom of Wakea, where Milu's hosts might not set foot. After long negotiations with the chief, now under the protection of Wakea, Milu got his eyes back, on condition of releasing the soul of the chief's wife. It returned to earth and was reunited to its body.

Religion is everywhere connected with man's craving for causality, which will ever be looking out for the cause or the causer of everything that comes to pass. Thus its deepest roots come into contact with science, and are profoundly entwined with the sense of Nature. Agathias tells us that the Alemanni venerated trees and streams, hills and dales; and we may boldly assume for all mankind the universal "animation" which lay at the base of this veneration. This craving is very suitably met by the tendency to vivify or even incarnate all the higher phenomena of Nature, by attributing to them a soul which guides in the first place their own motions and changes, but afterwards also their relation to their surroundings nearer or more distant. The Dyaks ascribe a soul to plants no less than to men: if the rice rots, its soul is clean gone; but it can, when strewn on a body, follow the human soul to the other world, and there again be incorporated and serve it for food. A false application of the law of cause and effect leads to the assumption that there are relations between this soul and the human soul, which at last weave around this latter a close network of

causation. The story of the Kosa chief has often been told. He died shortly after causing a piece to be broken off an anchor which was cast up on shore, and from that time forward the anchor was treated with reverence. So a thousand threads are knotted together, and none of them is forgotten; and in this net of tradition the simple child of nature flutters like a fly in the spider's web, and ever entangles himself more with every attempt to find the right clue. The soul is literally caught. A cord with several open nooses fastened to it is hidden in the leaves. If the man for whom it is meant catches sight of it, he fancies his soul is caught in it, and frets himself to death. There you have a method of sending a person out of the world which in the Banks Islands has been tested by

Fetish in Lunda; purpose unknown, perhaps to avert lightning. (After Buchner.) Cf. p. 48.

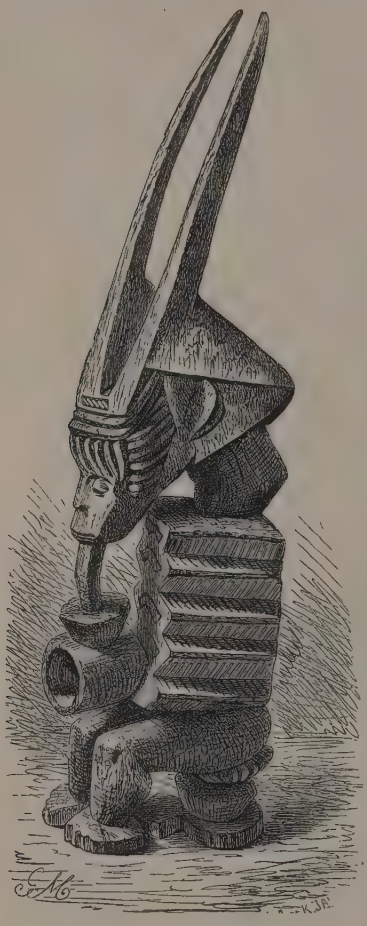
experience. Hence the terror of phantoms due to his own power of imagination, which is one of the distinctive traits of the savage, and has more influence than it should over his doings. When Melanesians are asked, says Codrington, who they are, they answer "Men," in order to let it be known that they are not ghosts or spectres. Of night the savage is more afraid than a badly brought-up child. Felkin, writing from the Upper Nile, says that at night the natives will never march, for fear of wild beasts and the evil influence of the moon. At the same time, for full half the year they feel far from comfortable in the daytime, and try at least in some measure to secure themselves under the constant feeling of being threatened by invisible powers, by extending the idea of unlucky days, common to all mankind, to the point of absurdity. Monday, Thursday, and Saturday are good days for travelling in these parts; Wednesday is neither specially good nor bad; but Sunday, Tuesday, and Friday are unlucky days. In Java, have not even the thieves their silver dial, like a watch, showing, after the fashion of a calendar,

he best time for burglaries or robberies, to assist them in their choice of lucky days? White men, like everything new and unusual, have almost inevitably been mixed up with these superstitions. Many a sad episode in the history of the exploration of the dark continent is explained by this connection, which is natural enough in the negro's spectre-teeming brain. Livingstone, in his *Missionary Travels*, forcibly depicts the terror which he, as the first white man, inspired in the negroes; he, the best friend they ever had among the whites: "The women peer from behind the walls till I come near, and then hastily dash into the house. When a little child, unconscious of danger, meets me in the street, he screams." No less are the

Entrance to a fetish hut in Lunda. (After Buchner.) Cf. p. 45.

things owned or used by the white man instantly raised into the sphere of the miraculous, the fetishic. Paper with writing on it especially is a fetish for the West Africans, who regard it as sheer witchcraft. Buchholz was bandaging a severe wound for a man when a scrap of paper fell unnoticed from his pocket. On his next visit to his patient he found him flitted, because the house was bewitched. The bit of paper was restored him with the utmost solemnity. On the occasion of the funeral of a Bakwiri woman he was urgently entreated in a special speech by an envoy from the negroes, kindly not to throw bits of paper about in his walks, as otherwise they would have to avoid those roads and spots. When Chapman visited Lechulatebe's town on Lake Ngami, the mortality from fever was very high. The chief was in great alarm and excitement about "the death that was roaming all around." He scarcely showed himself outside his hut, made his wives and children undergo frequent ablutions, and kept his doctors constantly at work by having his threshold incessantly sprinkled with decoctions of herbs. The relations of those who had died were subjected to tedious processes of purification before they were allowed to rejoin the community.

Thus an animating breath blows not through Nature only, but all things; and there is in all dealings, even in the decoration of men and the ornament of things, much more spiritual value and purpose than we fancy. Therefore the word polytheism applies to all religions of the lower grades. A tendency to multiply conceptions shows itself throughout; in the course of time the process of god-making has become pleasant and easy to the troubled spirit to which all this is due. Where the mass of the chiefs were looked upon with awe as demi or entire gods; where souls did not only survive, but remained in intimate contact with this world; where every family possessed its own tutelary spirit in the shape of a beast or something else, gods and idols must have sprouted and flourished and entangled the whole mind in a thicket of fantastic fictions. We do not wish to see therein only the base creations of terror. In the act of animating is something beautifying, such as on their higher levels poetry and philosophy strive after.



Wooden idol from the Niger (Museum of the Church Missionary Society).

Where lie the sources whence ghosts and spectres rise incessantly in their millions? The most striking change in a man himself or his closest associations is wrought by sickness, sleep, and death. It is not the fear of Nature which meets us as the first basis of superstition, but that of death and the dead. The business of Shamans, medicine-men, Koraji, and whatever else these wizards are called, is everywhere in the first place to seek out the causes of death and sickness, and then to communicate with the spirits of the dead; who are regarded by their relatives with deep aversion, often with fear and pain.

Directly from this springs fetishism, setting up in all manner of complicated ways relations between the countless tribe of souls and all possible articles in which these take up their abode. Here it is clearly seen that no straight road from objects of external nature to the soul of man is offered by the fundamental lines of primitive religious systems—for we shall seek in vain for any direct relations between their teaching and the measure of extent and activity which the fetish-system has reached,—but rather that the fancy, timidly searching around in the whimsical way in which the emotions of alarm are apt to express themselves; for any support that may be at hand attaches itself to objects often in the highest degree unworthy of its confidence. But interrupted experiments, so to say, are tried with regard to supernatural agencies. Not only is search made after new spirits, as when curiously-shaped stones are laid by a tree to try if they will improve its bearing; but old acquaintances are tested, as, for

instance, by giving them bad or putrid meat. Why have all the African negroes such a predilection for horns, hanging them in quantities on the persons of their magic-men, while the high priests, who are the kings, keep their dreaded medicines in them? Whence comes the almost comic veneration for pots, displayed by Dyaks and Alfurs? Anything striking finds a place in the wilderness of curiosities which hang about the neck and waist of a Kaffir magician; indeed it was in the leather pouch hung round the neck of such a person that the first great find of diamonds at the Cape, by an extraordinary coincidence, was made. Stone-worship is widely spread, but as a rule is connected with large upright pieces of rock; though in Africa any stone may become a fetish, and be decorated with rags of many colours wound round its neck. Among the Musgus, long poles serve for idols; the Azandeh prefer shapeless blocks stuck with nails, while in the Cameroons pillars of basalt are used. It would be hard to find an African who has not a fetish hung on him, and since many wishes, actions, and so on, have their special fetishes, many a man is heavily laden with these salutary objects. There are amulets too, which taste the water before you drink, and give warning of anything noxious therein; for evil spirits are partial to this flickering, foaming, ever-changing fluid. An Eskimo's weapon bears a little tutelary god on the band. This is only one stage from the so-called idols, figures of dead persons, which are cut in wood or cast in metal, or moulded in the huts out of clay, and set up about the graves. Both are animated; only the soul of the ancestral image is a definite one, which used to possess a well-known body, and now has passed into this doll, and often for years to come takes its accustomed place; as in the case of the Shaman of the Goldi, who stands in his old place in the *yaourt* until he is broken up with memorial services. With the making of such visible images of souls comes also the founding of special places for venerating them, in the form of the African fetish huts, the tabooed places of Malays and Polynesians, and so on up to the temple. As these are frequently contiguous to the places of burial, the abodes of the souls of the departed, they often look much like our churchyards, which are laid out round the churches without any consciousness of the close connection which prevails between care for the souls of the dead and the worship of God. The only difference is that the primitive temple more often grew out of the churchyard than the churchyard was appended to it. The Shaman of northern Asia surrounds himself with a whole series of wooden idols, with whom he converses during his conjurations, and from whom he gets advice.

A mummy wrapped in clothing, from Ancon. (After Reiss and Stubel.)

Idols from Hermit Island.
(Ethnological Museum, Berlin.)

Figures of animals, especially bears, come in, and his *yaourt* is a very home of souls. It must remain undecided whether we have a higher stage in the fetish-huts where there are no images or other embodiments. In Africa we find them as genuine huts, in Oceania as little shrines.

Funeral ceremonies are a department of religion among all races. The thought underlying them all is that the soul does not leave the body immediately, or at least maintains a certain alliance with it. The Polynesians state clearly that the soul after death haunts the neighbourhood of the grave for a while, until it finally descends to the realms of Milu or Wakea. Among Malays and Indians of north-east America this action is equally clear, and among the races of east Asia we find a glimmering of it. For this reason the corpse is often left for some time unburied—a whole year among the Chiriquis. The widely-spread custom of burying gifts with the dead, and the mummy-like arrangement of the corpse; the marking of the grave, which among the Bongos assumes the character of a monumental edifice; the founding and maintaining of regular mausoleums in the case of chiefs show how little the inanimate body is regarded as a mere thing. Among many races provision is made for the temporary return of the soul to its

Supposed idols representing souls, from Ubudjwa. (After Cameron.)

decayed tabernacle, and to this end an opening is left in the vault, and from time to time meat and drink are put by the corpse or poured into the grave. The soul in its wanderings may travel to any other persons, bewitch them, ruin them, or raise them to unexpected honour. In Uganda every sorcerer is tenanted by the soul of a king; but the ordinary soul, *Musimu*, can enter into any one. That the soul does not rest when it has reached the grave is indicated by the boat which is set up on the mound. In the North the sledge on which the corpse was drawn to its last home is used in the same way. From this boat is derived the shape of the stone slab used by North Germans. The forcible recall of the soul into the corpse by means of witchcraft was regarded as no less possible than its extraction by the same means from the living body, and transference to that of some beast; this last is a speciality much in favour with African magicians. But with the assumption of universal animation, the fancy need see no bar to any transmigrations on the part of the soul, though beasts naturally occur first.

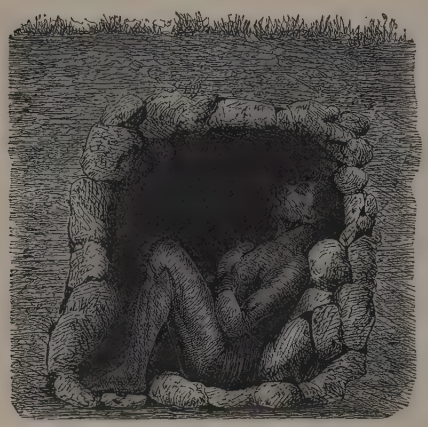
With the grounds for reverent treatment of the corpse fear is associated as a powerful motive. The rapid swathing, the carrying on a pole, the avoidance of the door, the hasty interment at a distance from the hut, are all operations if not prompted by fear, at any rate imbued with it. Curiously enough in this respect the strongest contradictions occur; for while the Kaffirs often simply drag their dead into the forest and leave them to the hyænas, they bury others in stone graves, or on their own premises. In the Cameroons a man is buried in his hut, a woman by the roadside. If the hut of the deceased is deserted or destroyed his household furniture is broken up, his slaves and flocks often put to death, and his very name devoted to oblivion, so effective is the dread of spectres.

The brief and fragmentary thought of savage races allows of a profound belief, expressing itself in as many forms as we have seen, in the animation of the human body, without a perception in all cases of the consequent necessity of accounting for the place in which the souls abide. Still that belief doubtless renders their acceptance of the idea of a future state more ready; and if this shows a remarkable similarity among ancient Europeans, Polynesians, and American Indians, we may look upon this as a fact of geographical distribution, remarkable rather in its relation to the geography of mankind than to the psychology of races. The myth already given of the soul-snatching Hawaiian chief shows clearly how far the resemblances go. In the fundamental features of a descent, a trick practised on the lord of the nether world, the jealousy of the remaining souls, we find agreement among many races. Conceptions which, as immediately reflected images of the reality, involve a certain element of necessity, stand in a different relation to each other from ideas which are attached to them only in the second or some more distant degree. These latter must always be tested with especial thoroughness in respect of their origin in higher and more remote spheres of thought.

What is called an idol is originally nothing but a memorial of a deceased person—an ancestral statue. It is more rare to find the soul embodied in a symbol, as when, at a memorial service for the dead among the Goldi, a wooden bird bearing the soul away is swung over the head of the Shaman. Usually the man is given as he was, often highly conventionalised. The connection between these images and what is commonly called idolatry, naturally depending on the affection bestowed upon the dead, is never more than a part of religion. This explains

the otherwise inexplicable variety which in this matter prevails among close-allied tribes, as for instance in New Guinea, where the Nufurese have a long list of idols (*karowar*), while there are none whatever among the Arfaks. Now we can understand also the intimate connection between skull and idol worship, for the skull is a memorial of the dead. The farther the idea of memory retreats, the more impersonal is the image. In Tahiti, where the personal family idols, or *tii*, are distinguished from the national idols, *tu*, it is chiefly the latter who are rendered invisible by wrappings. The theft of them often gives rise to wars between tribes.

Besides death we find life, with generation and birth as its more enigmatic and significant processes, woven into relations with the supernatural. The moment of generation is by predilection represented in carvings and images, and very commonly that of birth also. In the case of this the presentation of the feet signifies a special relation to the myths. There lies an affirmation in the new life which is opposed to the power of destruction. The phallus as a symbol of protection against evil powers is in use among the most various races; and therefore we do not think it necessary, with Schmeltz, to bring the appearance of phallic emblems among the Maoris into relation with the obscure question of the composition of the race, on the ground of the special prominence of the same among the Melanesians. Anyhow it is the case that among most different races, birth, the attainment of maturity (this very particularly), and marriage, are surrounded by ceremonies intended to render in a perceptible form the importance of these events. To the notion of a future life there has now accrued, in a higher stage of development, a more advanced and higher element in the shape of a doctrine of future rewards and punishments. Of this, however, many races show no trace. The "natural" races, no doubt, imagine divisions in the future life, but these are social, not moral. Thus the Polynesians distinguish the realms of Milu and Wakea. The former is the rowdy place where lower-class souls dwell, and amuse themselves with games and shouting; in the latter, on the contrary, quiet and dignity prevail, suited to the chiefs of whose souls it is the abode. Walhalla is only for brave warriors who have fallen in fight; and so, too, the Indian warrior has his select heaven. It is essential to point out that ethics do not necessarily form a primitive ingredient of religion, but are an admixture occurring first in the higher stages.



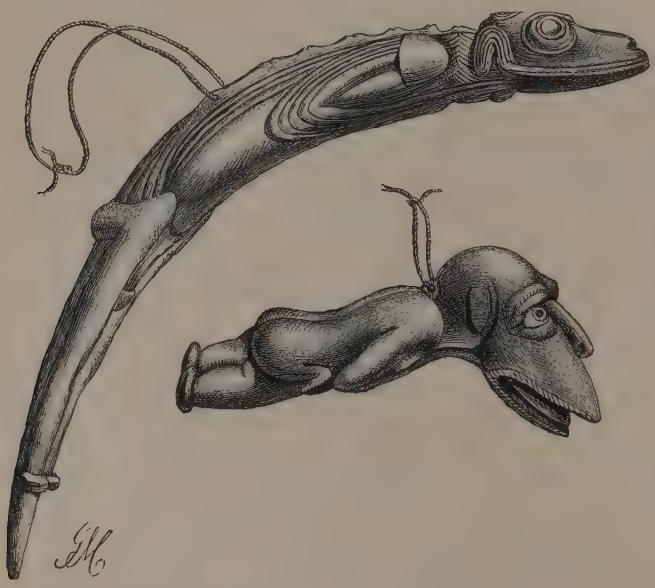
Grave of a Zulu chief. (After G. Fritsch.)

Two classes of natural phenomena exercise the most profound effect upon the innate sense of insecurity; and man must find out how he stands with regard to them. In presence of the mighty activity of natural forces he compares himself with the power and majesty of nature and acquires the consciousness of his own inferiority. On all sides innumerable obstacles offer barriers and hinder his will. His spirit trembles before the infinite and unfathomable, and hardly troubles itself

further about the particulars of which that exalted grandeur consists. Legends are sure to be woven about a mountain in the plain; the dark forest harbours ghosts; storms, earthquake, volcanic eruptions, impress by the unexpected and stunning manner of their outbreak. The fantastic idols with which forest and field in the Negroes' part of Africa swarm are in fact frequently memorials of lightning-strokes and the like. The deepest impression is left by the phenomena of the starry heavens, by reason of the majestic calm and regularity of their motions. The existence of these strange appearances so remote from earthly things, their brightness, their great number, naturally exercised an influence on the mind even of primitive men. All, even Bushmen and Australians, have names for the constellations. The warming power of the sun must have been felt with gratitude, more perhaps in cooler regions than in the tropics. Moon and stars, lighting the darkness, are doubly welcome to savage races with their fear of ghosts. The trouble they took to exorcise the obscuring spirit in eclipses of the moon, the high place allotted to the moon in the religious ideas and legends of all races, are evidence of this. It is too much to say that the sun as giver of light has been revered by all nations as a divine being and the universal benefactor. But sun-worship is widely spread, especially among agriculturists, and where ideas are more developed. Even on the magic drum of the Lapland Shaman a radiant sun is represented. Legends connected with the various positions of the sun in respect of the earth, and with the changes of the seasons, are widespread. In common with mother-earth the fertilising sun creates all living things, and the stars also. The souls of departed heroes make their way to the setting sun. With the sun is connected the worship of the fire which must not be put out and is kindled under the bond of an oath. The Japanese solemnly brings into his house at the new year fire which has been lighted in the temple by rubbing wood on an appointed day. Even the Russian in the district of Tamboff carries all the ashes he can and some stones from his old hearth into a new house, to bring luck; a survival of the transference of the fire itself.

Weather phenomena impress by their immediate effects, and the degree to which they enter into economic prosperity. The part which they play in the beliefs or superstitions of mankind is thus easily comprehensible, and shows itself in the frequent occurrence of rain- or sunshine-makers, the purveyors of fertility. Somewhat beyond lies the domain of those phenomena which never or seldom come into immediate relation with man, and therefore are noticed by him only when they force themselves on his attention. Even the savage, the most prejudiced creature in human shape, the man with the least field of vision, receives an impression from the rainbow "the bridge to the sky," from the roar of the sea, from the rustle of the woods, the bubbling of the spring. These phenomena are drawn into the range of superstitious conceptions, which in their turn are called forth by nearer causes. Are they images of souls, which the Ainu place on promontories where an awkward current prevails in order to pray for a good passage or a lucky haul? Savages know how meteoric stones fall, and have retained experiences of them in their traditions; the stone-hatchets found in the soil they call thunderbolts. The boat with the corpse is launched on the waves; the dark forest is overlaid with taboo; in every brook a spirit is imagined. Poetry here entwines its roots with religion; it appears a highly superfluous question to ask if these races have a sense of Nature.

But social observances are also mixed up in this. We know the part played by beasts as symbols of the social groups, as totems that is. The Shaman goes about with beasts as with his fellows, puts on a pair of artificial stag-horns, drinks the blood of dogs out of the hollow figure of an animal, has a hollow wooden bird swung over him, sacrifices to the river god out of fish-shaped shells. The Giljaks employ bears, hedgehogs, and tortoises for magic purposes, especially in sickness. Every year they have a solemn feast of fat bear out of their own wooden dishes. Legends about beasts and plants form a chief, not to say typical, part of the literature of primitive races. Beasts ever find a place at the base of the genealogies of tribes and chiefs. Wherever the world of Indian thought has spread, the belief in the transmigration of souls extends, especially in their transition from apes; even Japan once had its sacred apes. Besides this, beasts impressed themselves irresistibly by means of the good and harm they did. Man-eating savages felt themselves akin to the man-eating beasts. The custom of sparing these animals —indeed among the Malays and the Joloffs of Senegambia, crocodiles were kept in sacred ponds—may perhaps have another interpretation, as when Lobengula, king of the Matabele, made it a capital offence to kill a crocodile because mischievous magic could be practised with a dead crocodile. Even so, however, the beast religion may be assuming an indirect form.



Fish-headed idols from Easter Island. (Christy Collection.)

The inquiry about the One, the Lord of heaven, the All Creator—God in short, is not one of the first results that emerges from the mass of religious ideas. It is only incidentally that a glimpse at Him opens, and that only through chinks in the thicket of idols. The conception of His existence which we gain is all the less clear from the fact that the streams in which He is mirrored flow from different sources. Undoubtedly ancestor-worship leads to a gradual exalting of prominent figures above the common herd, and even to heaven. We can point to such apotheoses in Africa, as well as in Oceania; among the Incas they even began while the subjects of them were living. By the transference to heaven, the condition of far-reaching dominating influence is fulfilled. The millions of departed souls must have chiefs to lead them, and for this purpose those who were chiefs below are also the best adapted in the next world. Further, if it pertains to the essence of a god to accomplish the most various results from one point, without

being tied to thing and place of action, he must be raised on high. The weakness of remembrance accounts for his appearing to forget his roots in earthly affairs and to soar above. Thus the mass of souls become spirits; in their images they become fetishes; a few become tribal gods, and from these perhaps, by dissemination, may proceed gods recognised to a distance. Jehovah is received as the God of the world. Creation requires at least a first man, and beyond him a God capable of creating him. Usually the sky or the sun is called to this dignity; there live the sacred primeval ancestors who now coalesce with the creating God. Lastly, consideration of Nature demands great ruling spirits for the great things, and innumerable small ones for the small things. One Spirit in heaven, who is at the same time Creator, will of course be the First. Thus from different points there is a striving after one high Being, one God; everywhere we hear the name of a highest spoken, but only faintly and indistinctly. Frequently he is literally to be regarded as the eldest, the spiritual Lord of the tribe, the Sovereign over the souls of the departed, the Creator. It is dangerous for our missionaries to assign his name to their and our God, or the adherent of ancestor worship will be led of himself to put a mythologic form upon a first man, the ancestral lord of the whole race. Unkulunkulu is the original ancestor; he is himself the creator of men, a mysterious figure, but mysterious simply because the Kaffir has abstained from figuring him precisely either in fact or fancy. Thus Unkulunkulu resembles the supreme heaven-god of most negro religions; a being unaffected by earthly doings, and therefore disregarded; and corresponds to Molimo among the Bechuanas and Basutos, and Nyambi or Nyame elsewhere. The origin of all may be the same; but here it is important to notice, whether memory has grown so faint that the image of the first parent has been spiritualised, or this image is still so recent that our conception of God is degraded by the use of His name. The missionaries to the Hereros took Mukuru and Kalunga (for which they had at first put "fortune") as the expression for "God"; Nyambi was not adopted till later. In pre-Christian days the Hereros actually lived in a state of pure ancestor-worship. On the Gold Coast, and in parts of East Africa, we shall see that more pronounced developments in the direction of monotheism appear; and with these Christianity need have less scruple in linking itself. In some cases, the name of evil spirits (where they appear as destroyers and renewers of creation), has been adopted to render "God." In the New Hebrides, *Suque*, the name of a secret society, has been used for this purpose; and in the Torres Islands, *Augud*, which means "totem." The familiar Manitu of the Indians of North America is not "the Great Spirit," but "spirit" generally, even a bad one. The Polynesian *Atua*, which the missionaries took for "God," may have originated in some similar idea; but it is so universal in the sense of ghost, soul, or breath, that too close a contact is prevented with notions which the heathen would seize upon. The fact, referable to ancestor-worship, that within one race different spirits are assigned to different groups, which conduct their worship in secret societies, and often use this secrecy for purposes of outrage, naturally hinders the growth of the monotheistic idea, so long as no one of them is in the majority. Regulations of rank in veneration is no sure guide. for the name of the god venerated as supreme changes from one country to another. In the small area of the Society Islands, we find the following gods holding the supreme place:—Rua in Tahiti, Eimeo in Raiatea, Tane in Huaheine, Tao in Bolabola, Tu in Maurua, Tangaroa or Taaroa in Tabueamanu, Oro in Tahaa. In

New Zealand, Rangi (Heaven), takes the highest place at the head of all other gods. In Hawaii, Tane comes to the front, as Kane ; with him Wakea and Maui, who are only of importance in mythology, and the war-god. But as we shall see, all these supreme beings can lose nearly all their worship in favour of simply local ancestral deities. Nothing has contributed to this so much as the formation of sectarian groups, who struggled to keep their own god or spirit strictly to themselves. As they grew powerful, they imposed their own divine service on weaker brethren. On the other hand, we are told in regard to the Shillooks, that the Niekam owned in every village a temple or a house, often the whole village, which was inhabited by a privileged and much-respected caste—a kind of lords spiritual. These claimed a share of all the booty taken ; no man ventured to touch their cows, even to milk them. The chief's wealth was kept concealed in the Niekam's territory. In Abbeokuta, bundles of straw indicated the property of the thunder-god Shango ; this is inviolable, and whosoever lays his hand upon it, incurs the vengeance of Shango's priests. Indeed Shango is an instructive phenomenon. Some hold him for a king who in his life was very cruel. Others say he was a late-born scion of deity, only recently admitted to immortality ; sometimes he is the thunder-god's ancestor, sometimes his companion, and then thunderer himself. All points to the soul of a chief lately raised to Olympus.

The shiftings and exchangings of names, especially among non-writing races, owing to the recurrence of the same deities and divine functions, form a constant source of confusion even in the fundamental threads of mythology. It is therefore only possible to disentangle them by keeping fast hold of the underlying reality, setting aside all questions of hierarchy. To see in some isolated fact, like the survival of the first parent of the human race, a special and higher characteristic feature of the American form of the deluge-myth, is only to fail to recognise the multiform varying nature of the myth generally. An effort after selection and elevation lies deep down in the human mind. Nothing but rapid extension over wide areas, and the keeping of all decomposing influences at a distance, is needed to raise one idea of the deity above local limitations and waverings, as we see in the diffusion of Christianity and Islam. But the acquisition of power, that is, alliance with the secular arm, is also necessary.

The notion of man's position towards a personal Supreme Being, the highest disposer of things, to whom man stands in personal relations, has nowhere grown up in a pure form, but always only in fragments, inadequately, and in a shape full of misconceptions. Nor has religion, in the course of its development, remained alone, but has passed into more and more intimate alliance with other efforts of the human mind, above all with the stirrings and cravings of his conscience. Thus it received its most important adjunct, the moral element, and thereby acquired a higher influence upon general civilization. While in the cruder stages of religious development, man appears almost entirely as the demanding party who approaches spirits, fetishes, and so on, with his wishes or even orders, the execution of which is paid for in sacrifices ; the spiritual side now comes to power, and, equipped with reward and penalty, rules him, not by guidance only, but also by constraint. This sharper differentiation of the moral element in religion, which may be followed through many stages, is accompanied by the clearance from it of a mass of elements which without any deeper inward affinity are apt to be bound up with it ; as, for example, in the lower stages, not only the service of the superhuman spirit, but

also the care of the spirit in man, as in all beginnings of science, art, and poetry, matters connected with the sorcerer, the priest, and the like. Thus we have a point which we might compare to that where a number of vague winding tracks meet to form a few clear and straight roads. The alliance of religion with the civil law, which, though involving many humiliations, has in the end an elevating effect, frees it at the same time in an increasing degree from the alliance with all the activities of the mind which are to develop independently with art and science. The separation takes the line of a distribution among a number of persons of the priestly functions, as magicians, healers, rain-makers, image-carvers, court-minstrels, and so forth ; but only arrives at completion on the threshold of the age of art and science. History first shows us poetry, the arts, and the sciences in independent activity when we come to ancient Greece ; in Egypt they were all attached to the priestly caste.

The alliance of the temporal and spiritual powers is to be found in all stages of mankind at the present day. The power of a chief is incomplete without that of witchcraft, exercised by himself or in the closest union with the priests ; only fighting chiefs may form exceptions. Even here the bard has to go with the prince. A failure in rain-making may totally destroy all respect for a prince ; and Africa affords many instances of dethronement and murder owing to ill-success in witchcraft. On the other side, one can hardly conceive a more powerful support for the tradition of a sovereign house than ancestor-worship, such as made a saint of each of the Cuzco Incas. Oceania shows, by a multitude of examples, that princes or warrior-heroes stepped into the first rank of the gods. The succession of power was thereby materially fortified. In this connection we recall a remark of Mérimée's to the effect that the preference shown by the Romans for the Etruscan above other Italian races, may have been partly due to the knowledge of the oldest religious traditions and the interpretation of omens which distinguished the Etruscan aristocracy. What is good for society and the state is indicated as pleasing to God ; spirits who have to do with the welfare of families, societies, states, cannot but be beneficent. With the immutability of the divine requirements, the variable demands of morality, the profound and in part noble requirements of society, are content to be allied where they enjoin respect for age, the safeguarding of marriage, of children, and also of property—this last in the form of the highly selfish laws of "taboo." This gives the blending of temporal and spiritual interests. The cunning priest whom enlightenment sees at work, under one cover with the prince, to keep the people stupid is, especially at this stage, no mere fiction. Secular and spiritual law are fused. If the chief is a sacred person, any revolt against the order at the head of which he stands is sin ; and now religion serves for the more easy taming of the agitator and subverter.

The distinction between good and evil, which the profound sentiment of the Mosaic story places at the very beginning of the process of the Incarnation, must, in any case, have grown up early and spontaneously in another way. In Nature we find the harmful and the beneficial, and in the universal animation their counterparts pass from her into the spirit-world. The feeling of thankfulness toward the Good is constantly being called forth anew. Man needs it, and must be able to pray to it. Then if all good is to be ascribed to the soul of an ancestor, we have a mythic embodiment of the Good. But at this point the Good long remains as the benefactor of the individual, not of the whole community. There is an

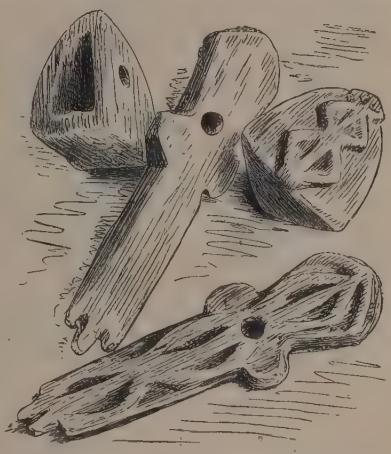
approach to this notion when, as in New Britain, the creation of all good things, whether lands, institutions, or only traps for fish, is ascribed to one single being—To Kabinana ("the wise"); other harmful things to another—To Kovuvuru (perhaps "the clumsy"). But when the two halves of the race, who bear the names of these creators, show no recognition of rank-distinctions, but those called Kovuvuru are found throughout on the same level as the Kabinana, it looks as if only a very weak contrast were felt. The deep gap between an unmoral religion and one full of morality is attested by the human frailty of the dwellers in heaven. Why are the mythological figures of the gods often so abandoned from a moral point of view—worse even than the men who adore them? A perverse conception of the force and power whereby they have to raise themselves above the masses produces a false ideal of divine greatness. We have, too, the fable-making element, which exercises itself agreeably in mythology, and has spread over the whole world that other false ideal of the cunning divinity, outwitting others in adventures of love, war, even business.

Magicians of the Loango Coast. (From a photograph by Dr. Falkenstein.)

The priest is the embodiment of the world of spirits with whom he has to hold intercourse, whom he bans and exorcises. He is fitted for his duties by the expulsion of the ordinary soul and the entrance of a new one; he best adapts himself to them when he differs mentally from the ordinary mass with a tendency to mental derangement, epilepsy, hallucinations, and vivid dreams. The traditions of the fetish priesthood are propagated by instruction, which is imparted to suitable youths. As a transformation from the normal man to a controller of spirits with magic powers, the training assumes the character of the miraculous, even a form of transmigration. Those whom the fetish loves are taken away by him into the

bush and buried in the fetish house, often for a long period. When the person thus carried off awakes again to life he begins to eat and drink as before, but his understanding is gone and the fetish man must instruct him and teach him to perform every movement like a little child. At first this can only be done by blows, but gradually his senses return, so that it is possible to speak to him, and after his education is completed the priest takes him back to his parents. Often they would not recognise him did he not recall past events to their memory.

The nucleus of his art lies in his intercourse with the spirits of the departed, but as sorcerer he is the receptacle of all knowledge, all memories, and all forebodings. Many Europeans have been in a position to appreciate the operation of his medicaments of herbs and roots. The position of the sorcerer is that of the doctor on a higher stage; some doctors understand certain disorders—for example, worms,—better than others, and to these patients are sent by the sorcerers. Bleek asserts that among the Kaffirs of Natal their doctors, as a rule, dissect beasts, but that in time of war some have secretly dissected men; this is a solitary statement. In any case they, no more than their patients, content themselves with natural remedies derived from the animal and vegetable kingdom, but they obtain, as they think, the deepest and most secure effects by the intervention of supernatural powers, whereby also troubles other than sickness, such as those of love, hatred, envy, may find a cure. The production of hallucinations was familiar to the priests. When they brought these about they were merely creating fresh supports to faith. Long before science they were in possession of the secrets of suggestion, hypnotism, and the like. The people themselves knew a good deal, but the sorcerer always kept the best a secret. Consider the power that resides in the mere fact of tradition. Often, indeed, the only kind of knowledge of history possessed by these races is the tradition of important events which is handed down secretly among the priests, and astounds those who seek for counsel by the appearance of a supernatural knowledge. Naturally, this knowledge can also be put at the service of the sovereign and of politics. The sanctity of tradition had also the object of making it secure, and in this sense we can say that it replaces writing. Writing and printing have damaged the position of the priest. The art of tradition had also been specially cultivated; to it belongs the knowledge of traditional signs and pictures in higher stages, the art of writing and reading, if possible, in a special script, as with the Egyptian priests. Special priests' languages recur among the most different races of the earth; the fundamental ideas of Shamanism are accompanied everywhere by details similar or agreeing even in the smallest points, of a kind which, in some respects, is not everywhere intelligible. Arrows to be shot off at the completion of a conjuration in order to lay the evil spirit form part of the sorcerer's equipment on the Lower Amoor as well as in Africa, America, and Oceania.



Dice and amulets of a Bamangwato magician. (Ethnographical Museum at Munich.)

The employment of masks in religious ceremonies is widely spread in all countries where the form of religion is polytheistic. Beast masks and human masks, monsters and complicated head-dresses, all find a use in religious performances. They recur in China, Thibet, India, Ceylon, among the old Mexicans and Peruvians, as also among Eskimos, Melanesians, and African Negroes. The Aleutians put masks along with the bodies in the graves, with such comically disfigured features that one is inclined to take them for dancing masks, which at one time served a profane end, and now are connected with serious conceptions of life and return after death.

Prognostications alone involve a complete science. Their number is so great that they teem through everything and hamper life on all sides. To give only a few examples from the Kaffirs. Eating milk products in a thunderstorm attracts the lightning. If you eat milk in a strange kraal you will commit a transgression there. You must not do field work the day after a hailstorm or you will bring

Masks from New Ireland—one-eighth of real size. (Berlin Museum of Ethnology.)

down more hail. He who kills a hawk must be put to death. If a bird of this kind settles on a kraal it is a sign of bad luck for the owner. If a cock crows before midnight it betokens death for man or cattle. The same evil significance is attached to the springing of a dog or a calf on a hut, and to the appearance of a rabbit in a kraal. The whisker of a leopard brings sickness and death upon any one who eats it unaware in his food, but if any one eats it with some of the flesh of that animal he becomes brave, and has luck in the chase. Dogs who eat the beak and claws of birds become strong and courageous. He who steps upon a thorn must eat it in order to protect himself from it next time. The horrible and widespread belief that no fatal accident which is in any way unusual can be natural, gives rise to a mass of magic practices, which pre-suppose a great knowledge of personalities and their influence. Ordeals which in Africa are intensified by means of strong poisons are surrounded with a strict ritual, as are sorceries connected with rain, the renewal of fire, and the most important periodical incidents in the field, the cattle-stall, and the chase.

The spiritual elements of a civilization are constantly exposed to the most rapid decay. As it is just these which are the motive forces in its forward development, this fact alone explains the great tendency to stagnation with inevitable retrogression. The history of religions is specially instructive here. If we ask in which elements Christianity has undergone the greatest modifications

among the Abyssinians, or Buddhism among the Mongols, the answer must be in the most spiritual. All founders of religions have borne higher ideals than their successors, and the history of all religions begins with a declension from the height reached by pure enthusiasm, to which later reformers at long intervals endeavour again to raise themselves and their fellow-professors. In monotheism we taste the bitterness of the sharp experiences of life known to advanced age. Who can wonder that young and naive races do not esteem it in all its pure worth? Abstractions are not fit for the masses. The same holds good in matters of dogma. It is not purity of dogma for which the fanaticism of the multitude cares, but for having the religion to which it is accustomed left undisturbed. How easily, in the extension of races, the deeply-differing principles at the base of religion tend to disappear behind forms is shown by nothing better than by the simultaneous Buddhist and Brahmin worship that takes place in many temples in Burmah and Ceylon. The magnificent ruins of Angkor Bat, in Cambodia, are a unique surviving testimony to this state of degradation of religions into a blend.

Outwardly decay shows itself in the split between form and essence, and it is here that the first rifts are formed. Then the work of destruction is carried farther by external decomposing influences, impaired strength, impoverishment, loss of independence, dwindling numbers. Artistic facility does not keep pace with spiritual creative power; as we may see by comparing the spiritual imaginings of Polynesian mythology with their representations in stone or wood. The spirit evaporates without leaving any creations behind fully corresponding to its own power and grandeur; but the forms remain. That is why among the so-called "natural" races the forms, even the most rudimentary, often hold a higher place than the essence; and this alone marks a stage in degradation. In almost all religions we meet with blurred traces of higher conceptions, and not only in spiritual but in purely material affairs, like those articles used in Buddhist worship, which have passed into the paraphernalia of Shamanism, brought thither by the active traffic between the more opulent Shamans and the Chinese, or the Christian crosses which in Tuckey's time were carried as fetishes on the lower Congo. Some isolated Christian notions had anticipated the missionaries. When Dobrizhoffer was trying to convert the Guaranis on the Empalado, an old cacique said to him: "Father priest, you need not have come; we need no priests. St. Thomas long ago gave his blessing to our land." The idea of a Devil, the most conspicuous evil spirit, was spread long before Christianity by uneducated Europeans, and has led to the assumption of "devil-worshippers," and a dualism of good and evil spirits. On the other hand, with regard to the legends of creation and the flood, often no less suspicious, and their curious accordance with Genesis, they are too universal and too deeply entwined with the whole mythology to allow us to assign them so recent and so casual an origin; part of them, at least, belong to the world-myth, whose origins date from pre-Christian times.

Have we in religion isolated developments or a network with closer meshes here, looser there? The answer involves more than any classification can offer; indeed, we shall not be in a position to classify aright until we have made it clear to ourselves how much is the common property of mankind, how much the separate possession of a race. What we have to say on this point is connected with and supplements what has been said above about the common possession of mankind.

"Animism" and ancestor-worship are common to all human nature: Bastian calls them elementary thoughts. As we may learn from funeral customs, their manifestations often agree even in details. From them we could reconstruct a universal doctrine of souls as held by savages. Fragments from China and North America, Germany and Australia, fit with wonderful precision, and form a united body of doctrine consistent in its fundamental features. We have seen how the "universal animation" of Nature connects itself with this. No doubt the objects which it animates are different in Greenland and in Fiji; but from like sources it draws, with like bounty, superstitious usages absolutely alike. For this reason the men who have power over these things agree so extraordinarily in disposition and character. The Shaman of northern Asia and the African rain-maker, the American medicine-man and the Australian sorcerer are alike in their nature, their aims, and to some extent in their expedients.

All mythology has outgrown the small local influences which once must have been powerful in it. We do not mean that in the mythological reflection in the popular mind of regular natural phenomena, it is not often some slight abnormality which is felt as such far beyond the measure of its magnitude, as when the sun is distorted on the horizon; we do not overlook the fact that the extent to which sun-worship flourished in Peru rested upon the certainty in that land of little rain or cloud, that the brightest of the heavenly bodies would at all times be seen uncovered; nor do we forget the influence of historical facts such as meet us in the legend of the primitive abode of Iroquois and Algonquins, in which they saw not only their home, but also the places whence kind white men with beards came to them. Here one element may preponderate over another; the main fact remains that they were bound together by like fundamental thoughts from which what we call the world-myth was constructed.

The chief trait in the world-myth is the opposition between heaven and earth. Heaven appears sometimes as itself, sometimes as the sun, *i.e.* the sun is the eye of heaven. They are interchangeable; thus among the South Americans a belief in heaven replaces the very marked belief in the sun, as the future home of the soul, which exists among the North Americans. In the work of creation the sun is the assistant of heaven. The earth is always opposed to both; its creatures are subordinate; it is always regarded as the female upon whom heaven begot all existing things, man in particular. With sun, lightning (or the god of thunder), fire, volcano, earthquake, is associated also the idea of an assistant creator who approaches the earth in the revolution of the sun, in the lightning-flash, in volcanic eruptions, just in proportion as heaven remains remote from him. Hephæstus and Prometheus, Demiurge and chastised fire-bringer, life-giver and destroyer, he stands at the centre of many a religious system, and heaven, the All-father, comes far behind him. The Maui-myths are common to all mankind, not specially Polynesian. They might just as well be called after Loki, who is also a crippled god of the under-world, or after Daramoolun, the thunder-god of the South Australian races, whose name Ridley translates by "leg on one side," or "lame," or again after the Hottentot Tsuigoab, "wounded knee." No myths, and so not these, can be made, in proportion to their wider or narrower, denser or looser, distribution, the bases for conclusions which have reference only to limited race-relationships; it is quite enough if the characteristic features turn up elsewhere. Maui, like Hephæstus, is crippled in a limb, and dwells in the earth; if the South

Africans believe in a lame god dwelling in the ground, it is the same. He even meets us in a multiplied form in one-legged gnomes who dance round the cave-dwelling fire-god of the Araucanians. The cloud-serpent with the lightning is to the Nahuas the creator of man, just as the thunder-god is to the Tarascos, or Ndengei to the Fijians; and he again is a serpent who grew with the foundations of the earth, and whose movements produce earthquakes. And this serpent is, again, the sacred dragon of China and Japan with its endless variations.[1]

In connection with the opinion of many races that the god of heaven and the light who dwells in the east is their creator and benefactor, they place their original abode in the east, as the Mexicans sung of Aztlan, the land of brightness. Still more often the place of departed souls is placed in the western sky, where the Islands of the Blessed rise in the golden glow of sunset. In the description of the ways which the soul has to travel, its dangers and escapes, lies a mass of similarities, which is far greater than the missionary, with all his energy, can have carried from one people to another. Readers may remember the Hawaiian tale of the soul brought back from the under-world.[2]

There is scarcely a single legend of creation in which a tree does not occur—the tree of the Hesperides, the ash Yggdrasil, the tree of Paradise. It stands between heaven and earth, the gods descend upon it, the souls find the road to heaven by it, or it becomes a rough beam for them to totter across; in short all creation has come out of it. The region in which men are conceived as sprung from trees embraces Hereros, Kaffirs, West Africans (cf. cut on the next page); the kindred idea of an origin from plants occurs among Polynesians and South Americans. As a geographical fable it has preserved its connection with that of the home of souls: one of the Canary Islands, held to be of iron, and therefore waterless, is said to be watered by means of a tree "always covered by a dense cloud; thence the leaves of the tree received water which constantly dripped, so that men and beasts got drink enough." This was believed down to the 17th century, as may be read in Schreyer's *Neue Ostindianische Reisebeschreibung* (1680).

The men of the present day are in many accounts only a second later-created race, separate from an earlier one which was destroyed by some great catastrophe, the falling of the heaven or the flooding of the earth. Cameron heard at the lake of Dilolo that in the depth of the lake men were living, moving, and acting, as if in daylight, their entire village having been submerged for their cruelty in sending away an old beggar man. A single one received him kindly, and so saved himself and his house. It may be thought that is a version of the story of Noah, through Arabic or Abyssinian tradition. But we find the story elsewhere also with local alterations. The water especially is regarded as inhabited; the negroes on the Nile can tell of splendid herds which the river-spirits drive at night to pasture.

This whole mythology, put together fragmentarily and only half-understood, has as it stands before us the interest of an ancient building constructed of strange stones, in which the very gods of modern men, the returning restless spirits of the departed, roam about in a thousand forms, to which nevertheless it is only in a few places that they assume a relation of intimate kinship. The fundamental ideas of animism and all that is twined round it, spread over the earth at another date and from other sources than the cosmogonic legends, the myths of gods, and the

[1] [Dragons also live in mountain-countries, especially on mountain-tops. Compare Salimbene's account of the ascent of the Canigou by Peter III. of Aragon.]

[2] Supra, p. 41.

portraitures of the next world; and the former were certainly much earlier than the latter. Both show the most striking similarities in the remotest regions; but in every region they are two independent worlds of ideas, which come into intimate contact at a few points only, while even then there intervenes a peculiarity which we may call "free invention," or at least "free variation." We do not share the view that every custom, every usage, of these races with no traditions must be deeply rooted in some historical association. Much comes into existence in sport; the Nyambe worship of the Balubas is not the only case in which the suggestion of a whim has had consequences. Beside the great similarities, finally, we find

Cemetery and sacred tree in Mbinda. (After Stanley.)

the smaller ones. These help to explain the others, of which they are often survivals, roots, or offshoots.

As we find in all parts of the earth, where Europeans have built houses and ploughed the soil, the same plants growing in rubbish or springing from seed; so isolated superstitious usages, of little importance in themselves, sprout up as survivals and traces of thoughts which are universally diffused. The belief not only in the evil eye, but in hands and horseshoes as counter-charms to it, is found in India, Arabia, North Africa, and Europe. In Morocco the women, when in mourning or after illnesses, hang little balls made of their hair on certain trees, a custom which, as the hair-offering, we meet with in the most various forms in all parts of the earth. It is only one portion of a complex mass of usages the aim of which is respect towards, concealment or offering up of, whatever is taken from the body. Here also belongs circumcision, a custom most irregular in its

distribution. Zulus practise it, Bechuanas do not; it is found in New Caledonia, but not in the Loyalty Isles. In its special ritual form again it runs through the most various and distant countries.

In conclusion, we may refer to one of those usages which seem to have something playful about them, and of which for that very reason the wide dissemination strikes us. In Ancon and Flores, frames made of reeds, and having many-coloured threads wound over them in the fashion of a flag, or a star, are put into the grave with the corpse (Figs. 7, 8 in the coloured plate "American Antiquities). Among the Pimas a religious significance is attached to them, and we find them in Vancouver and Chittagong without any nearer definition of their purpose. In Egypt they form ornaments for horses; in Bolivia they are stuck in the rafters.

In order to take a general view of the extension of the various religions, it is customary to divide them into a few large groups, to the statistics of which, if we only demand estimated figures, an approximation can be obtained. If the grouping is to be based on the deepest-seated differences, in order not to break up mankind into casual fragments, but to distinguish them according to the true height and depth of their religious development, we must not always take into consideration the traditional, superficial forces, Christianity, Paganism, Polytheism, Monotheism. If we survey the religious development of mankind in connection with their total development, we recognise that its great landmarks lie elsewhere. Monotheism arises even in the midst of polytheism as a natural effort to provide one Supreme Being; while the monotheistic creeds are invaded by the impulse to distribute the one who is distant into several, or many more accessible.

At the base of the religious development of existing men we find:

I. Religions wherein the divine is not exalted far above the human, and without any strong moral element. These rest in all cases on belief in souls or ghosts; allied with this are sooth-saying, medicine, rain-magic, and other superstitions.

In one group we find the association of natural phenomena to be only slight, and the tendency to fetishism accordingly strong, as with many Negro races and the Northern Asiatics; in the other a higher development of cosmogonic and mythological conceptions to entire systems, as with Polynesians and Americans.

II. Religions which exalt the divine far above the human sphere, and progressively detach themselves from any mixture with other efforts of the mind in the direction of science, poetry, and the like, cultivating proportionately the moral element. The belief in souls recurs in a purified form in the assumption of a future life with rewards and punishments.

(*a.*) Polytheism, which allows a position of sovereignty to several locally varying gods without always recognising any moral superiority in them, as the Brahmins and Buddhists, pre-Christian Europeans, the ancient Americans.

(*b.*) Monotheism in different grades of development, according to the number and importance of the beings akin to gods, saints, and so on, who intervene between the one God and man. The single God appearing in the highest moral perfection—Mussulmans, Jews, Christians.

Christianity, at the beginning of its intimate and manifold contact with non-European races, soon laid aside the prejudice that their souls were not destined to

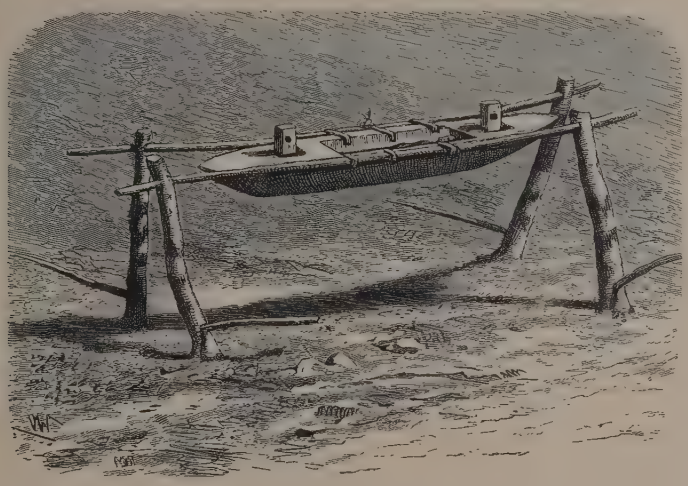
salvation, and from the beginning of the sixteenth century the missionary formed the inevitable accompaniment of trade and conquest—even of the slave trade. Not only as an institution with religious aims, but generally as an effect produced by strangers among a race of whose nature they often know very little, but into which they try most forcibly to penetrate, the entrance of the missionary is important from an ethnographic point of view.

The monotheistic religions could not well attach themselves to such a wavering uncertain conception as that of Nyambe or Manitu. In most cases they could not even use the name of the supreme being whom they found in possession to denote their one God ; misunderstandings would have been too great. But the possibility of forming a connection, even of fruitfully cultivating the already prepared soil, is doubtless presented in other religious ideas of the "natural" races. Theoretically for the understanding of the much-despised condition of religion among the "natural" races, no less than practically for estimating the prospects of Christianity, it is worth while to emphasise these. The idea of the continued life of departed spirits, on which that of a future world also rests, is fundamentally akin to the Christian doctrines of the soul and immortality. To cherish the memory of ancestral souls is in no way in contradiction with Christianity, but it must pause before the deification of ancestors with which idolatry begins. In the cosmogonic myths of natural races Christianity finds traits of its own doctrine of creation reproduced, often in striking agreement ; lastly, the Christian doctrine of God as Father and Son may be attached to the ideas of a Demiurge.

The gap opens as soon as we set foot upon the moral law, that essential constituent of Christian doctrine. In spite of Abraham's sacrifice the missionaries must set their faces firmly against human sacrifices and the low value attached to human life. What is more difficult, they must extend their influence upon the morals of their scholars much farther into the domain of the purely secular than did the heathen priests. Their Christianity must have a social and economic side, and therewith be revolutionary in its effects. Polygamy and slavery form two great stumbling-blocks. Missionaries seek to reach their aim by reforming the economic existence of their disciples, but may easily go too far in that direction. Certain philanthropists who sent a missionary with Captain Fitzroy to that forgotten spot of earth, Tierra del Fuego, wrote in his instructions : "In your intercourse with the Fuegians you will bear in mind that it is the temporal advantages which you may be capable of communicating to them that they will be most easily and immediately sensible of. Among these may be reckoned the acquisition of better dwellings, and better and more plentiful food and clothing. Consequently you will consider it a primary duty to instruct them in cultivating the potato, cabbage, and other vegetables, and to rear pigs, poultry, etc., and to construct a commodious habitation. You will probably find in this as in more important things that example is the most influential instructor. You must therefore take care to have a comfortable habitation yourself, furnished with all necessary articles, and kept clean and orderly. You will also fence in a piece of ground for a garden and get it well stocked with the most useful vegetables, and also surround yourself as quickly as possible with a plentiful supply of pigs, goats, and fowls."

This is a beautiful plan ; why were its results so meagre ? Such an attempt to bring men over from a poor but easy state of existence to one which, though better,

demands more of them, can be nothing but an economic revolution which is not only capable of bringing blessings, but also certain to cause mischief, and the latter sooner than the former. The existence of the Fuegians may very well appear dreadful to European eyes and pleasant enough to their own. The missionary must in all cases start with a notion that the higher civilization is certain to have a decomposing effect upon the conditions of heathen life, and that he should soften the transition by the practical schooling of his disciples; but he should not play the part of artisan or tradesman. This contradicts the mystic element which resides together with a mass of superstitions in the priesthood of natural races. This must not be undervalued, but we must recollect the vows of self-denial so frequent in Africa, which are taken with special ceremonies and



Boat-coffin from Timorlaut. (From a model in the Ethnographical Museum, Dresden.)

strictly kept; or the bodily and spiritual acts of self-injury performed by the Shaman when he is sending out his soul in convulsions. It is in the healthy alliance of self-denial with practical work that the success of the missionary monastic orders lies. The aim which the German missionaries to the Hereros set before them has for its basis an economic and social development such as Christianity might entertain; deeds are more effective than spoken doctrine as they are shown in the demeanour of the missionary, and above all in the calm security with which he regards and treats the things of the world. Finally the priest can only make a breach in the chaos of superstition if he is at the same time capable of acting as physician.

The universally-recurring combination of chiefhood and priesthood leaves no doubt that the success of missions depends upon a right estimate of political conditions. Not till the missionary can obtain the backing of a powerful chief will the discharge of his task as a rule be possible. The Austrian mission in Gondokoro, started with such sanguine hopes, collapsed without leaving any traces worth mentioning of its devoted activity (Speke, with some exaggeration, says without having accomplished a single conversion), chiefly because it took a perfectly independent attitude. In fact, instead of any government which could

keep in check the Bari population, in their state of utter political decay, and protect their property against themselves, there was nothing but a society opposed in its very essence and aims to all missionary activity, that of the slave-traders. Results have shaped themselves quite otherwise where the missionaries have been able to develop their operations under cover of even such toleration from a chief as Moffat got from Mosilikatse ; or when they have enjoyed the protection of powerful chieftains, as Livingstone among the Basutos and Makololos under Sechele and Sebituane, or the missionaries of different denominations under Mtesa and Mwanga in Uganda—though in this instance they have unfortunately not been able to keep clear of parties.

From all this it should be clear that missions can only go to work with a prospect of success after thorough study of the religious notions and secular institutions of the "natural" races. Ethnology owes most valuable contributions to many missionaries who have realised this. Very frequently it has been the inevitable study of the languages which has led to a deeper understanding of the life of a race. But he who would teach savages what is deepest and most essential in Christianity must also understand it himself. The least successful missionaries have always been uneducated men, incapable of a right conception of their own faith, such as have been sent out in numbers by England and America : men without love, who have often been rather traders or political agents than Christian ministers.

In conclusion we may again point out that the implanting of a new faith always implies a simultaneous transformation in civilization, and must be the work of more than one generation. A mission allows of no hurry, it must shirk no trouble to heap up grain upon grain, it must not allow itself to be seduced into snatching at opportunities which seem to afford a chance of more rapid progress, and thereby, even were it only temporarily, diverted from its true aim.

Next to Christianity, Islam is the chief proselytising monotheistic religion. In many respects it seems better to meet the comprehension of the more backward races. In Africa and Asia it makes progress. Its extension may be merely superficial, as in the negro countries of Africa, where we find among the Furs, under a Mussulman varnish, the belief in a god called Mola and sky-worship in full vigour, while in West Africa the transition from the Mussulman mollah to the fetish priest is imperceptible ; but still it strikes its roots deeper than Christianity. It offers no logical difficulties, and its practical commands may be lived up to with a certain laxity. The permission of polygamy and slavery gives it an incomparable advantage compared with Christianity. The prohibition of the former indeed excludes from Christianity, at all events until a profound moral renovation takes place, all those persons of property whose higher social position is above all things indicated by the ability to keep several wives, and for whom this is the chief satisfaction derived from their wealth. Upon this institution, to which even missionaries do not always venture to offer stubborn opposition, and which quite recently in the southern Ural has caused hundreds of Tartars to renounce Christianity under the eyes of Russian officials, a great part of the influence of Islam depends. The general upshot is that Islam is usually better suited to the society and polity of the least advanced races, and is allied with a civilization all the closer to theirs for the reason that the place of its origin is nearer their own both in locality and in climate.

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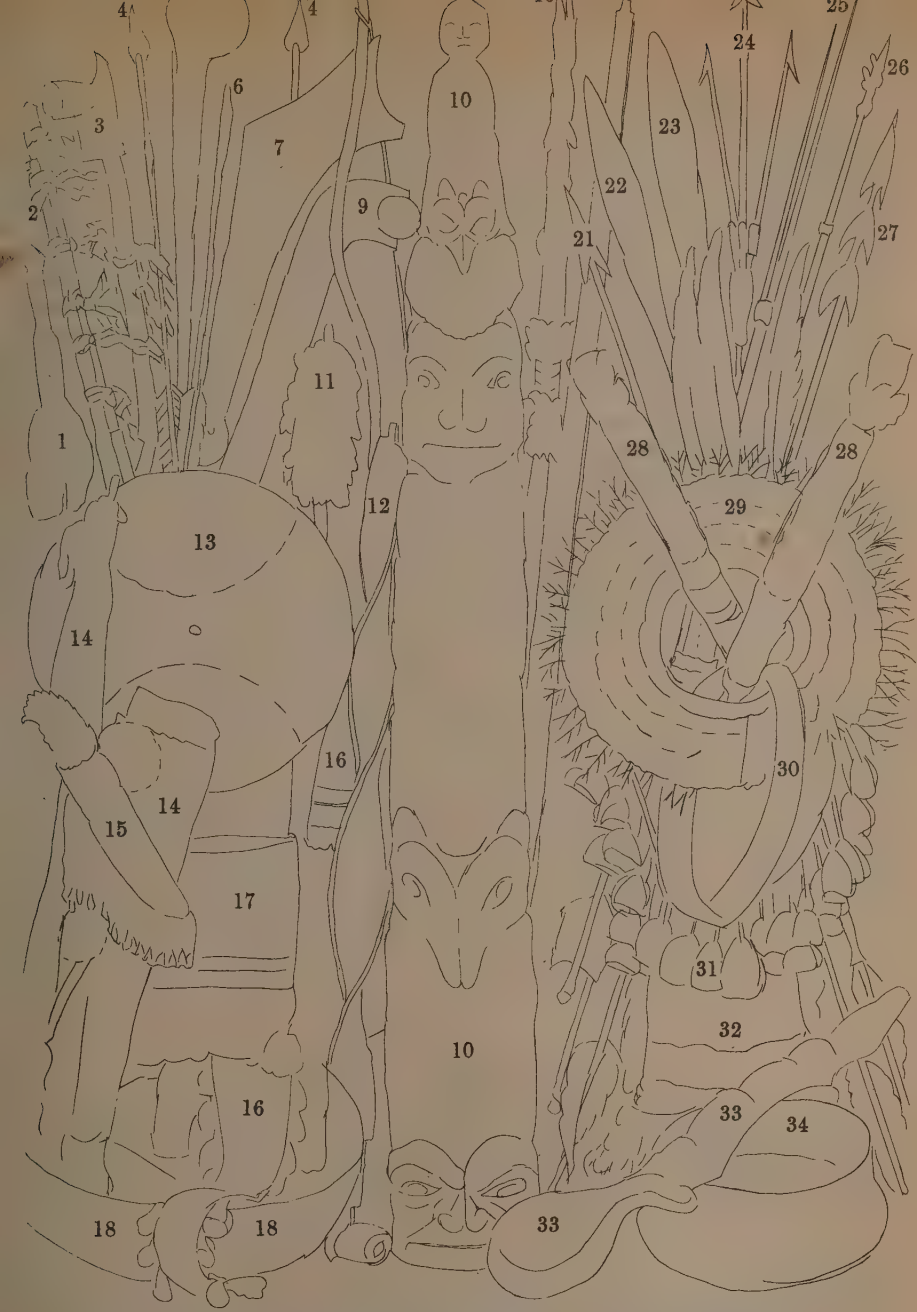
WEAPONS, UTENSILS, AND ORNAMENTS OF AMERICAN INDIANS.



WEAPONS, UTENSILS, AND ORNAMENTS OF AMERICAN INDIANS.

1. Wooden club: Haida, Queen Charlotte's Island.
2. War-dance flute, Sioux.
3. Pipe: Blackfoot Indian.
4. Arrow: Apache (New Mexico).
5. Racquet: Choctaw.
6. Blunt Arrow: Apache.
7. Stone Tomahawk: North-west America.
8. Bow: Apache.
9. Wooden Club.
10. Post erected in front of house: Haida.
11. Dancing rattle: (?) Apache.
12. Tobacco pipe.
13. Shield: Pueblo (Cochiti).
14. Quiver and bow-case: (?) Apache.
15. Scalping knife in sheath: Blackfoot.
16. Medicine bag of otter skin.
17. Hunting pouch: Cherokee.
18. Bowl: Pueblo (Acomo, Arizona).
19. Spear ornamented with feathers (Uaupé): Brazil.
20. Bow: Conibo.
21. Arrow: Cashibo.
22. Arrow: Conibo.
23. Arrow: Shakaya.
24. Fishing-arrow: Shakaya (Orinoco).
25. Fishing-fork: Pano.
26. Harpoon: Pano.
27. Arrow: Cashibo.
28. Feather-sceptre used in dancing: Mundrucu.
29. Feather-crown: Makusi.
30. Breast belt: Conibo.
31. Necklace: Lengua.
32. Ornament for the back: Rio Pastaza.
33. Carved spoon: Pemba.
34. Bowl: Cocama.

One-tenth natural size. All from Ethnographical Museum, Berlin. (When no place of origin is given, it is lacking also in the

Not a third of mankind has yet been won to Christendom. Out of 570,000,000 estimated of monotheists 440 confess Christianity. Of the remaining 900,000,000 of the earth's inhabitants, the Buddhists with 600 occupy the largest area, and the most inaccessible to Christian teaching. It is practically from the residuum of the lowest heathendom that the missions, which now control 3000 ordained men, have gained their converts. The most conspicuous successes have been in Oceania, where a whole list of island groups have been won for Christendom, and are now sending out from among themselves missionaries to the neighbouring islands. In Africa, Madagascar is almost wholly under Christian influence. The Hottentots and Hereros, the people of Siberia and Sierra Leone, and numerous tribes in Angola, on the Gold Coast, on the lower Niger, have become Christians. In Asia perhaps 1-400th part of the population of India has been baptized. In China the tale is yet less in proportion to the mass of the population—65,000 in all. On the other hand the Indian Archipelago shows a larger list of Christian districts. In America nearly all the Eskimo of Greenland and Labrador, many Indians in North America, and the greater part both of them and the Negroes in the West Indies, have been gained. In South and Central America the Spaniards, both in Church and State, have been working at the conversion of the Indians ever since the beginning of the sixteenth century, with much success in accessible localities.

It is obvious that no one can have a thorough knowledge of missions who thinks that these few figures express their successes. We must always think of them in alliance with other civilizing forces, to which they act as a stimulus or a check. As a spiritual power they effect much which in its essence is spiritual. As Warneck says, "the Gospel puts new religious views and moral conceptions into gradual circulation, and these surround even the heathen part of the race with a new spiritual atmosphere. Wherever a mission has taken a firm footing, paganism is no longer what it was; a leavening process begins which ends with its decomposition and the victory of the Gospel." And besides that, the emitted light of faith radiates back warmth.

§ 7. SCIENCE AND ART

The condition of scientific development—The slow expanding of the sense of Truth—Religion and Science—Age of fear and of mythology—Friendship with Nature—Science under semi-civilization—Systems of science among "natural" races—Religion as the common ancestor of art and science—Poetry of "natural" races—Lyric and musical art—Images of souls and gods—Priests and Artists—Origin of ornament—Ornaments of men and beasts—Plastic art—Arts and crafts—Sense of colour—Modifications of style—Materials—Popular sports.

THE fundamental labour is that of agriculture. All other forms of economic activity pursued their course, hand in hand with this, ever more rapidly towards perfection, till they attained in all points what would be achieved by industrious and skilled hands—patience, devotion, and lastly, a fine taste, so high a mark that later generations, working with improved tools and clearer insight, have in many cases not been able to surpass it. They remained, however, stationary at manual and individual labour, and, under the restraint of caste, stiffened in tradi-

tional methods. Inventions, machines, production on a large scale, were not reached till much later, when a creative impulse brought into all these activities the mighty element of advance which we now call science. If manual labour provides the basis of civilization, the training of the mind in the maintenance and renewal of mental possessions gives the force of life and increase. In the opening of this second source lies the cause of the great advance from what we vaguely call semi-civilization, to what is called by us Europeans, and is, the civilization of the nineteenth century. In the year 1847 the following question was propounded at some meetings of the Paris Ethnological Society. Wherein really lies the more profound distinction between white men and negroes? Gustav von Eichthal answered it at that time: "In the possession by the white man of science, which, owing to writing, the elements of calculation, and so on, penetrates ever deeper and gives permanence to itself; while the negro is characterised, and his stationary condition explained, by the total lack of it." Of arithmetic, geometry, astronomy, and fixed measurements of time and space they are completely destitute, and therewith of what on that occasion was named *initiative civilisatrice*. Meanwhile we must ascend high in order to find what is in the highest sense science. We claim to live in the age of science, and if perhaps yet more scientific ages are in store in the future, yet we more than any of our predecessors enjoy a science that has of itself achieved great things. A few centuries ago science was still in a dependent position as handmaid of the Church; we can trace her entire deliverance, not without great conflicts, from that bondage. But that was only the conclusion of a long conflict fought out within the human race. The "natural" races show us science in its lowest stage. They are not wholly without it; but their science is symbolic, poetic, still hidden within the bud of religion. They are two flowers which cannot expand rightly until they are no longer in so close contact, but each allows the other space to unfold freely.

In the lower stage religion includes all science; and the poetry which forms myths is her most powerful tool. There is no question of truth; only of getting an image. The sense of truth is uncommonly little developed among "natural" races. The kindly Livingstone wrote in his last diary in Unyamwesi: "In this country you can believe nothing that is not in black and white, and not much even of that; the most circumstantial report is often pure imagination. One half of what you hear may safely be called false, the other doubtful or not authenticated." The sense of truth must have been developed slowly. The most highly developed races seek it most eagerly; and we could even undertake to grade the present holders of civilization according to their love for truth. With every higher stage of humanity the sense for truth increases, and in every higher race the number of truthful men.

There is a period at which the universal animation of nature forms a principle universally valid. Fear or attraction, truthfulness or usefulness, divide all nature between them. That is the highest form of the subjective conception. The next is mythological explanation, which clothes correct interpretation in an intentionally distorting figurative language. Above the dreary terror which forbids the Nyassa negroes to mention earthquakes—how long may the myth-breeding effect of such a phenomenon, from which science at last issues, lie quietly under the terror which enjoins a superstitious silence!—soars the loving dealing of poetry with Nature. One can speak of the age of belief in ghosts,

and that of mythology as successive. In the former the bases of natural science are laid in the affinity and acquaintance with Nature, which is a great peculiarity of "natural" races. The mingling of men and other creatures in art is no mere external feature. The feeling of an absolute spiritual distinction between man and beast, so widespread in the civilized world, is almost entirely lacking among savage races. Men to whom the cry of beast and bird appears like human speech, and their actions seem as if guided by human thought, are quite logical in ascribing a soul to beast no less than to man. This feeling of kinship shows especially in histories of creation, and as a deduction from these in the beast-legend. An enumeration of the animals to which beliefs and superstitions have attached themselves, however copious, would give a defective picture. In some parts of Africa the chameleon would be prominent, in others the jackal, in north-west America the otter, in the eastern parts the beaver. *Nahualism* (*nahual* = a beast in Quiche), the belief in a familiar spirit in animal shape who is friendly to man, suffers and dies with him, is one way of bringing oneself into alliance with the animal world; totemism, which makes the tribe descend from an animal, is another. As a rule the myth-forming powers of the mind are concentrated on certain selected points; while many others, which to all appearance recommend themselves equally well to the myth-forming spirit, are neglected. The predominance of traditions over new creations is nowhere shown so clearly as in this limitation, which indeed has a touch of the whimsical.

The fettering of the intellectual powers by giving the priest a free hand, and the special direction which is therein given to them through the preponderance of mystical tendencies in the service of superstition, explain much of the backward condition of many races, and produce a hampering, one may say even petrifying, effect not only upon the so-called natural races, but also among those who enjoy semi-civilization. In order to understand this effect we must form a clear view of the position held by priests, Shamans, medicine men, or whatever they may be called. In ancient Mexico they received a special training and attained knowledge and power in the following subjects: hymns and prayers, national traditions, religious doctrine, medicine, exorcism, music and dancing, mixing of colours, painting, drawing the ideographic signs, and phonetic hieroglyphs. This science and ability might be shared with others in its practical employment, but as a whole it remained a privilege of their caste. The superstitious dread of their magic power, of their alliance with the supernatural, their innate or acquired capacity for states of ecstasy, increased by fasting and vows of chastity, raised them in the eyes of the people at large to unattainable heights. The artificially unintelligible priest-language contributed yet more to mark them off, but since the aim of all these preparations and labours was the service of God, or rather of spirits in the widest sense, the elements of progress in culture and science remained unaltered in the germ. This religious torpidity among races whose intellectual life is not yet supported by a more developed division of labour between classes and callings, and for whom religion is the entire intellectual life, means a fettering of the intellect. Science which, when left to itself, is naturally capable of progress, in this alliance is crippled. The Lushais call their witch doctors the "great ones who know"; it would be better to designate them those who *can*, for from their knowledge proceeds only skill, not science.

In certain directions the intellect of man can progress in straight lines,

which for us are practically unlimited. In other matters it must necessarily revolve about certain points without going very far from them. To the former belong scientific, to the latter religious concerns. The creation of science therefore forms one of the greatest epochs in the life of humanity, and among civilized nations the deepest cleavages result from the lack or possession of it. The orientals as a whole do not understand how to value the sciences for their own sake. Bare interest in truth characterises them but imperfectly. They esteem knowledge, but on grounds which are alien to science. When we find in Chinese tradition one and the same prince inventing or regulating the calendar, music, and the system of weights and measures, while his wife is regarded as the inventress of silk-worm breeding and silk working, one of his ministers gives the order to invent writing, and another carries out the order at once with great success; when we find in the same age astronomical observations held in such importance by the State that two statesmen are punished for neglecting to calculate an eclipse of the sun properly; we see in this close connection of science with State power a proof of the purely practical estimate of science, or, one would rather say, of knowledge and skill. For this very reason the most modern scientific works of the Chinese look to us like a survival from the Middle Ages; we see the greatest intellects of that race proceeding upon an old road from which a sounder new road branched off centuries ago. It takes centuries for a people to disentangle itself from such errors. The Chinese have had thousands of years, but they stifled all originality in their hierarchic examination system. Good observation and false conclusion are by no means irreconcilable. The Chinese who, as indeed their art testifies, have good eyes for what is characteristic in Nature, are above all no bad describers. Their books of medicine, in which 2000 to 3000 remedies are described, are rich in definitions full of knowledge and apt if often prolix, and still richer in excellent pictorial illustrations. Their classifications too may often claim to formulate carefully correct principles of thought, but it is not pure truth which stands as the aim of all these efforts, it is rather the case that a philosophy full of preconceived opinions leads them astray. The fact that this *Physique Mensongère*, as Rémusat calls it, excludes all encroachments of the supernatural, and fancies that it interprets all phenomena in the simplest possible way, lends a double vitality to the errors. Explaining as it does everything by extension and compression, Chinese physics finds it easy to account for every phenomenon,—it is triumphantly enthroned upon empty words.

All civilized races are also writing races; without writing is no secure tradition. The firm historical ground, upon which a step in advance may be tried, is lacking. There is no chronicle, no monument of renown or mighty events intended to immortalise the history of the past, which may spur to emulation and brave deeds. What lies outside of the sacred tradition passes into oblivion. Human memory being limited, it is impossible but that when the poems intended to glorify a recently deceased Inca are learnt, those which were fashioned in praise of his predecessor should be forgotten. In the schools of the Indian Brahmins we learn the importance which was attached to getting by rote, and the trouble which it cost: in them the Vedas have, in spite of writing and printing, been orally propagated up to the present day. Every scholar has, in the traditional method, had to learn the nine hundred thousand syllables. Yet writing could never be replaced by these means.

It is impossible to give a general view of all the germs of science among

natural races. Much is no longer to be known, more has disappeared and fallen to ruin, the amount possessed is very unequal. Hitherto too low an estimate has prevailed. The reckoning of time and astronomy, both of which come into close relation to men's needs, are indeed the most widely extended, just as they also stand far up in the pedigree of our science. We may point to the star legends of the Bushmen, or the observations of the sailors of Oceania, of which we shall have to speak later. A primitive astrology runs through the religion of the natural races. Their attempts to drive away eclipses and comets with all sorts of noises point to a feeling of discomfort from the disturbance of order in the firmament. Falling stars denote the death of some great man, close conjunctions portend war.

Ornament on coco-nut shell, from Isabel in the Solomon Islands. (After Codrington.)

All "natural" races distinguish the seasons, not only according to the terrestrial processes of flowering, ripening, and the like, but also by the position of the constellations. But the year is an abstraction foreign to many, and even if the months are distinguished, their cycle does not tally with the year. The step to science is made when sections of the year, field labour and such like, are associated with the apparition of particular constellations, for this assumes observations. Naturally these are carried out most extensively and most acutely among the sea-faring races. We find the Banks Islanders using a special name, *masoi*, for the planets on account of their rounder appearance.

Civilized races see in poetic literature the highest achievement of their great intellects, and it is precisely in this direction that the natural races have risen highest. Hamann has called lyric poetry the mother-tongue of humanity. Among the natural races we scarcely find any but lyric poems, and these express love, sorrow, admiration, and religious sentiments. Wherever the poetry of the natural races has been put into words it is also sung, and thus poetry is closely allied with music. As in the case of our own poets, we find here also words and phrases which have only been preserved in poetry, and unusual lengthenings and shortenings for the sake of metre. In the dancing songs of the Banks Islanders obsolete words borrowed from neighbouring islands form a regular poetic language to themselves. There is no lack of bold imagery, and a whole list of artifices such as repetition, climax, abbreviation, and artistic obscurity come into play. The alliance with religion is always preserved. In Santa Maria the following song is sung in honour of a person away at sea :—

"Leale ale!
I am an eagle, I have soared to the furthest dim horizon.
I am an eagle, I have flown and landed on Mota.
With whirring noise have I sailed round the mountain.

I have gone down island after island in the West to the base of Heaven.
I have sailed, I have seen the lands, I have sailed in circles.
An ill wind has drifted me away, has drawn me away from you two.
How shall I make my way round to you two?
The sounding sea stretches empty to keep me away from you.
You are crying, mother, for me, how shall I see thy face?
You are crying, father, for me, "—and so on.

The last words of the poem are :—

"Ask and hear! who wrote[1] the song of Maros?
It was the poet who sits by the road to Lakona."

In the form of this lyric, as given by Codrington, we see the alliance with music. Choric and religious songs were accompanied by music, and there are sacred drums and trumpets which may only be sounded by the initiated. The Tucanos of Brazil use long flutes to invoke the spirit Yurupari. Women may not look upon him and conceal themselves at the sound of these instruments, which at other times are kept under water.

Piece of bamboo with carvings, from the New Hebrides. (After Codrington.)

But there is more than this in poetry. It embraces legends which are not merely fiction but contain in them the whole intellectual possession of the race, history, customs, law, and religion, and thereby are an important aid to the preservation of knowledge from one generation to another. Many legends are mythological fragments differing outwardly from myth by their fragmentary character and lack of point. Many myths are nothing but picturesque descriptions of natural events and personifications of natural forces. These bridge over the interval to science, for in them mythology becomes, like science, the way and the method towards the knowledge of the causes of phenomena. The original object falls into the background, the images become independent figures whose quarrels and tricks have an interest of their own. Therewith we have the fable, especially the widespread beast fable. Here the immediate operations of Nature are indulged with a wider play. Just as the sacred mountains and forests, the sacred sea and its cliffs, protest against any denial of the sentiment of Nature among the races that have no literature, so do their myths and hymns testify to the deep impression made by Nature. The connection of many a little poem with the song of birds is obvious. Light and darkness, day and night, arouse feelings of pleasure and discomfort; white, red, and green, embody benevolent natural forces and dæmons; black those that are dreaded. Sunrise and sunset, storm, rainbow, the glow of evening, are most adapted to find a lyric echo where sun and fire are objects of adoration. What light and darkness are for the eye, sound and silence are for the ear. The rumble of thunder, the muffled roar of beasts of prey, contrasted with the clear ripple of the spring, the plash of the waves, and the song of birds. In a series of pictures, copious though limited by the constraint of customary expression, the poetry and pictorial art of the natural races contrives

[1] Literally *measured*.

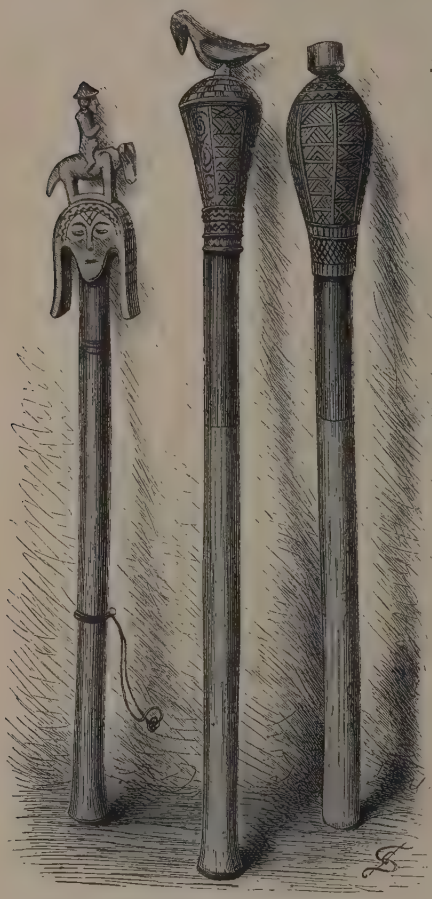
to express this. On one side of the mysterious Papuan bull-roarer, the object of religious devotion, is depicted the resting moth, on the other the whirring moth: what a simple and impressive picture language!

Pictorial art has also, even where it seems to have passed entirely into a trade, its connection with religion. The execution of carvings was among the tasks of holy men, who imported mythological ideas into all the detail. If we look at the instruments used by a priest on the Amoor or the Oregon we see the connection between art and religion as plainly as if we entered a village chapel or a Buddhist temple. Polynesia presents an astounding abundance of carved work which unhappily with its enigmatic fancy is to us a seven times sealed book. But we know that at one time the axes of Mangaia in the Hervey Islands might only be carved with sharks' teeth, that the openings were called "eel-borings," the projections cliffs, and that the whole ornamentation was one mass of symbols. The clay

Plaited hat of the Nootka Indians showing eye-ornament. (Stockholm Ethnographical Museum.)

bowls of the Pueblo Indians have step-shaped edges, to denote the steps by which the spirit may get into the vessel. The perpetual repetitions of the same little figures are just like the 555 images of Buddha in the temple of Burubudor in Java, the expression of inarticulateness in religion and rigidity in art. The art of "natural" races much prefers its elements to be of small bulk, but from these it puts together the largest works. In the squeezed or twisted figures of men or animals piled one on another in the door-posts of the New Zealanders or New Caledonians, or the family pillars of the Indians of North-West America, no single detail has a chance of being fairly represented. No freedom is shown except in their decorative combination. For this reason out of all the many magnificent works executed in America, sculpture never succeeded in attaining to freedom. Tradition was just as depressing here as in the much cruder work of the West African carvers of fetishes, who inhabit a regular industrial village in the neighbourhood of Beh the sacred village of Togo. Even under the patterns of the *tapa* of Oceania, as shown on our coloured plate, symbols are concealed. Thus, as Bastian puts it, all decorative art appears to be a system of symbols, preliminary to writing, and is intended to convey a definite meaning. Art, in its efforts after expression, develops but slowly, and does not emerge into full freedom until the moment when for its own sake it has forgotten that purpose. From the symbols,

simple masses and lines are composed, which are coloured, shaped, and arranged so as to correspond with the sense of beauty. But even then the ornament is only an idealised copy from Nature, most often from a human face or figure. From almost every Persian carpet there looks at us at least the one widely-opened eye, which averts the evil eye. The decorative treatment of the face turns up in such abundance and in so many forms that it practically recurs in all ornament above the most elementary. The occurrence of "ocellate" patterns testifies to its presence where it would be least suspected. In the objects discovered at Ancon the most magnificent ornament is grouped about large faces or figures with very prominent faces as centres. On the monolithic gate of Tiahuanuco are human figures, arbitrarily conventionalised, and composed of similar but smaller figures. Attentive comparison seems at last to justify us in rediscovering the human form in almost every ornament and every grotesque of ancient America. But it is striking to see how much the subjects of primitive art differ. Australians rarely make any representations of the human figure; and they are very rare in East and South Africa. Livingstone makes his reflections on the fact that idols do not become frequent until north of the Makololo; while on the Upper Nile, in West Africa on the Congo, in Guinea, they occur in great number. These images were also used for secular purposes. May not the Kioko clubs, carved with human heads, have been originally idols, carried in the hand instead of being stuck in the ground? What we regard as the work of a sportive whim, those gnarled birch-roots often of very curious forms, which the Chinese convert into human figures with one or two cuts and dots, carry us back to the widespread tendency to see in such freaks of Nature more than chance, something indeed which may be of mysterious service in magic or medicine.



Carved clubs from Lunda. (Buchner collection in the Munich Ethnographical Museum.)

In art we find once more the bias of religion towards universal animation. An element at the base of all primitive art is the close alliance of men and animals in the ornament. This corresponds to the religious view which dreads or reveres a human soul in every beast. Accordingly in the richest store of conventional sculpture which we possess, that of the ancient Americans, human faces and figures, most frequently eyes, occur in the greatest abundance. Next

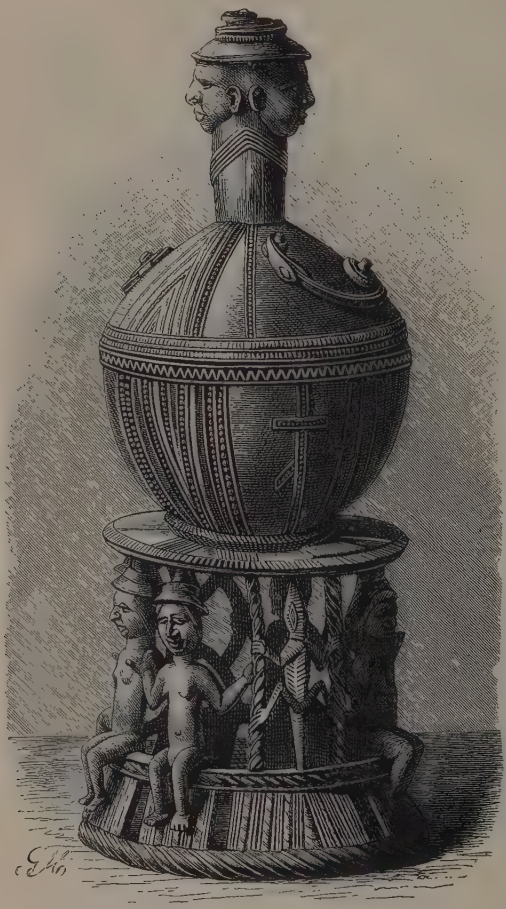
to them come animal figures, feathers, ribbons; parts of plants very seldom. W. Reiss draws special attention to a Peruvian robe of state exhibited some years ago in Madrid, for the very reason that its ornament, contrary to the usual rule, is taken from plant forms. Feathers, tortoises, lizards, crocodiles, frogs, snakes are represented with remarkable fidelity. The sun-bird with outspread wings is a favourite symbol and theme for ornament from Egypt to Japan and Peru; the portal of Ocosingo shows a typical development of it. Grotesques of men and beasts, distorted and involved out of all knowledge, such as even the Maya writing displays, are often drawn with great skill and boldness of caricature. The often-quoted elephants' trunks on monuments at Uxmal, and on golden figures of men, may be explained either by the tapir's snout, or a comic elongation of the human feature. Death's heads are among the most widespread subjects; hewn in stone they form long friezes, and adorn the approach to temples at Copan and elsewhere. A corresponding case is when the temple gapes upon the beholder with a door shaped like a serpent's jaws, or, as in a house at Palenque, the whole front forms a horrible monster, whose mouth is the wide doorway, and the bars of the sculptured lintel his teeth.

If amid this abundance of images there comes to light so little of any importance that, in countries where the climate made it much easier to go without clothes than in Greece, the representation of the naked human body was scarcely attempted, this can only be explained by the religious fetters in which art was bound. Almost everything is clothed, the faces tattooed or covered with a ceremonial mask. In these external points, so unimportant for us, the Mexican or Peruvian artist put his whole strength. He represented beautifully the feather robes, the ribbon ornament; his death's head or his frog is true to nature, but almost every human figure, on the contrary, childishly crude and disproportioned. The exceptions to this are rare. When do we find even a living nose or a speaking mouth? The wide distinction between the highest point reached by barbaric art and the Egyptian art from which the Greek and all faithful imitation of Nature started, lies in the

Tobacco-pipe carved out of slate, from Queen Charlotte Islands, British Columbia. (Berlin Museum of Ethnology.)

New Zealand tobacco-pipe. (Christy Collection.)

fact that the former made no effort to represent the human form as such, but smothered it in wrappings and symbols. When we consider the stiffly designed figures of the Egyptians, we get the impression that they were on the road to become great sculptors; indeed, in some works they already came near to it. The Mexicans, Peruvians, Indians, were upon quite another road, which led them far from this ideal. While the highest aim of sculpture is to be sought in the representation of the human body, the essence of their carved work consists in neglect of the body and disproportionate emphasis on accessories. Only in the technique of arabesques could they attain to anything of importance, but that led them into a blind alley, craftsmanship instead of art.

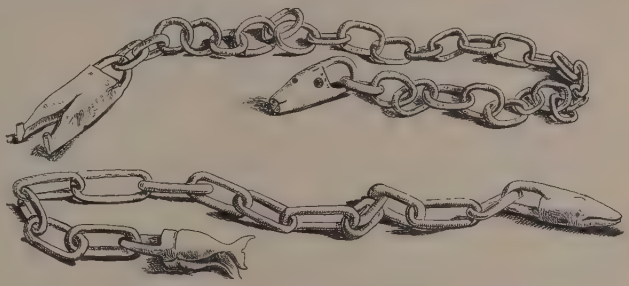


Ornamental goblet from West Africa. (British Museum.)

In what are nowadays called the industrial arts, the restraint was far less; here we do find faultless performances. A Peruvian vase of red earthenware; a beautifully polished, perfectly symmetrical, bow from Guiana; a steel axe inlaid with copper or brass from Kassai-land; a spoon carved by Kaffirs in the shape of a giraffe; a club or feather helmet from Oceania, are creations perfect in themselves. These are things upon which the highest art of the west could not improve. In plaiting, the industry of the natural races produces better work, both technically and artistically, than the civilized races could show. With the support of its close ally, embroidery, the appliqué method prevails in the ornamentation of work in leather and cotton stuffs throughout North and West Africa, and to some extent also in North America. The scale of colour is frequently not great, but the sense for colour is well cultivated. West Africans, especially Houssas, often show more taste in choosing the colours of their clothing. They pre-eminently avoid calicoes of many colours, the evidences of machine industry which art has deserted. It is precisely in the matter of colour that the characteristic of a geographical region often lies. The hard red, white, and black, is typical of New Britain and the surrounding parts. One of the districts richest in colour is North-West America, which makes the contrast all the more striking as we pass from the Alaskan region to the Magemuts and Kuskwogmuts, whose flat round masks, with their crowns

of feathers, are coloured white, gray, and dingy brown. One seems to have come back from a spring meadow of many colours into winter. The pegs of green stone in their lips, the dark brown wooden dishes inlaid with white bone, the thin strings of pearls twined round ears and lips, do not give a very strong colouring to the snowy landscape.

Many as are the directions in which style varies, the degrees of development are yet more various. In originality, fineness, and richness, nothing can touch the work of some of the Pacific races, especially the North-West Americans and their neighbours farther north. Also some groups in Oceania, especially the Maoris; we say nothing here about the still higher Peruvians. The richness of Polynesian work is astonishing, in spite of their limited materials—shells, coco-nut shells, a little wood and stone. In these laborious combinations of small things, there is far more labour than in most of the African objects, which betray more talent than industry. The Africans and Malays, who are provided with iron and other things from Asia, achieve less in proportion than the isolated Eskimo. The position of Japan, with its wealth of most successful imitations from Nature, seems less strange when we consider the number and the careful execution of human and animal figures among the tribes of the Pacific. Whereas the Moorish Arabic style runs throughout Africa, the Indian style through Malaysia, all the inhabitants of the North Pacific are allied by similarity of style with Japan. Australia and South America, excepting Peru, stand apart as less fertile but original territories. Materials, too, are unequally apportioned and used. The African works in iron and ivory, and leather or hide; the Australian in wood or stone; the man of the far north in walrus tusk. The Polynesian produces his best results working in stone and shells; some American tribes surpass all others in pottery. The reaction of the material upon the art, however, is often over-estimated. The patient hand of the ancient Mexican shaped the most artistic works in the most refractory stone, such as obsidian. The material is of only small importance in regard to the degree to which arts and crafts are developed among the natural races. Australia, with its wealth of timber, produces less in the way of woodwork than some small island which possesses nothing but coco-nut. The material often gives its direction to the technique, but does not determine it. Similarly it imparts faint shades of colour, but the human intellect and will is at the root of the matter. The achievements of the Africans in iron, to some extent combined with copper and brass, are pre-eminent. They avail themselves with naïve acuteness and taste of the special properties of the material. But none of their performances excels the perfection of a beautifully polished and perforated stone hammer. Everything which they produce lacks the fine beauty of perfect finish, and more especially proportion. A nation's sports are a valuable evidence of its mode of



Chains made of walrus-teeth, from Aleutia. (City Museum, Frankfort O. M.)

life and view of life. Many gain a special interest from the fact of their having spread with scarcely perceptible variations over very wide regions. Any one who knows the multitude of the games in which, among simple races, children and adults take part with ever fresh pleasure, and considers the simplicity of many of them, cannot but remark that in the life of these races there is an element reminiscent of childhood in the careless squandering of time, and the limited demands made on life. In the small area of the Solomon Islands and Northern New Hebrides, including the Banks Islands, we find hide and seek, prisoner's base, football, stump and ball, games akin to *morra*, hoops, exercises in spear-throwing and archery. When the harvest has been reaped, they fly kites; and in connection with the yam harvest the game of *tika* is eagerly played between contending villages. On moonlight nights, the villagers go round the circle of gossips, hidden behind a screen, and making their friends guess at their identity.

§ 8. INVENTION AND DISCOVERY

Essential characters of invention—Primitive science—Finding and retaining—Difficulty of a tradition in the lower stages—How inventions get forgotten—Pottery in Polynesia—Importance of individual inventions in primitive conditions—*Tapa*—Obscure derivation of such culture as is possessed by "natural" races—Examples of imitation and other correspondences—No race is wholly without external relations—Ethnographic poverty and impoverishment—Distinctions of degree in evolution—Monbuttus—Curious cases of special development—Kingsmill Islands—Difficulty of determining relative degrees of culture.

THE material progress of mankind rests upon an ever-deepening and widening study of natural phenomena, from which results a corresponding increase in the

Kaffir fire-sticks, for producing fire by friction. One-fourth real size. (Museum of the Berlin Mission.)

wealth of means at a man's disposal for his own emancipation, and for the improvement and embellishment of his life. The discovery how to make fire by friction was an act of the intellect which in its own degree demanded as much thinking power as the invention of the steam-engine. The inventor of the bow or the harpoon must have been a genius, whether his contemporaries thought him one or not. And then as now, whatever intellectual gains were due to natural suggestions must have grown up in the individual intellect, in order, when circumstances were favourable, to make its way to the minds of several or many persons. Only suggestions of a lower, less developed kind, such as we may call quite generally tones of mind, appear like epidemics in many simultaneously, and are capable as it were of giving their tone to the mental physiognomy of a race. Intellectual

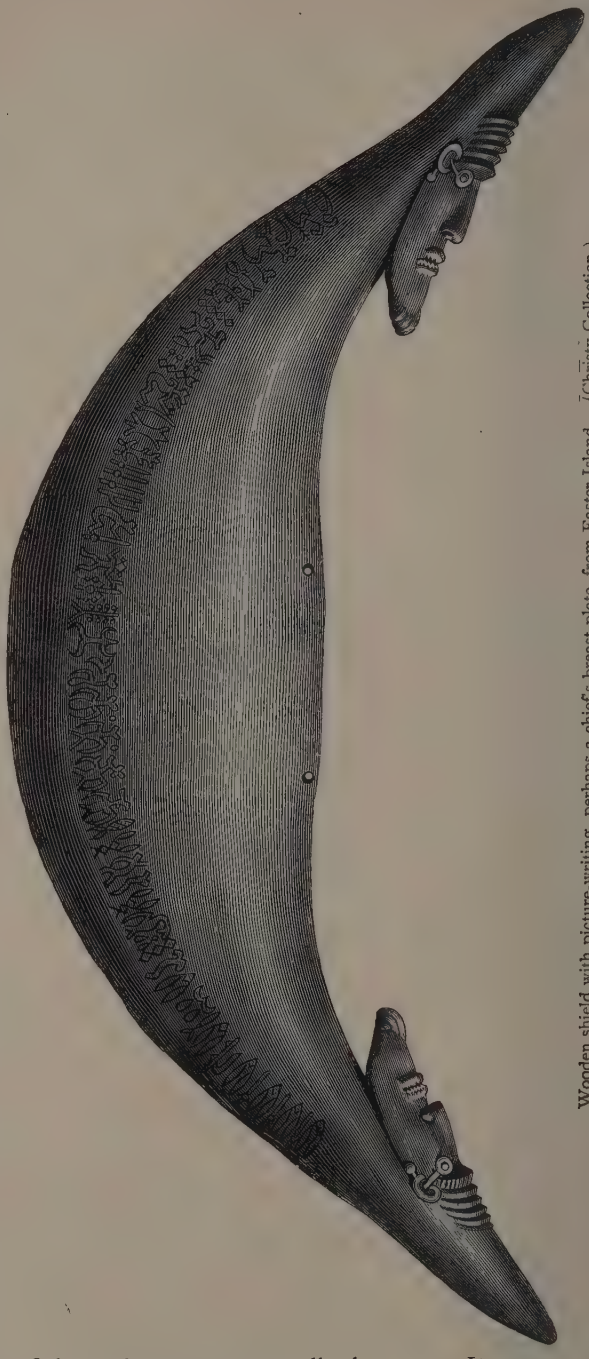
games are individual achievements, and the history of even the simplest discovery is a fragment of the intellectual history of mankind.

When primitive man was brought naked into the world, Nature came to meet him in two ways. She gave him the materials of food, clothing, weapons, and so forth, and offered him suggestions as to the most suitable methods of turning them to account. It is with these suggestions that we have now to concern ourselves. In invention, as in all that is spiritual in man, the external world, mirrored in his soul, plays a part. We cannot doubt that much has been taken from it. The agreement between type and copy seems very close when we find the tail of a gnu or eland used by the Bushmen of South Africa, just as it was by its first owner, to keep off the flies of that fly-abounding region ; or when Peter Kolb relates how the Hottentots look only for such roots and tubers as are eaten by the baboons and other animals. When we come to consider the evolution of agriculture, we shall discover many other cases of similar suggestions ; justifying us in the reflection that in the lower stages of culture man is nearer to the beast, learns from it more easily, and, similarly, has a larger share of brute-instinct. Other discoveries go back to the earliest observations of the sequence of cause and effect ; and with the course of discovery the beginnings of science also reach back to the earliest ages of mankind. Some natural occurrence strikes a man ; he wishes to see it repeated, and is thus compelled to put his own hand to it. Thus he is led to inquire into the particulars of the occurrence and its causes.

But it is the individual alone who, in the first instance, makes the discovery and profits by it. More is required if it is to become an addition to the store of culture such as the history of culture can take into account. For the mode in which the acquisitions of the intellect are amassed is twofold. First, we have the concentrated creative force of the individual genius, which brings one possession after another into the treasury of mankind ; and secondly, the diffusion of these among the masses, which is a preliminary condition of their preservation. The discovery which the individual keeps to himself dies with him ; it can survive only if handed down. The degree of vitality possessed by discoveries depends, therefore, upon the force of tradition ; and this again upon the internal organic interdependence of the generations. Since this is strongest in those classes who either have leisure or are led by their calling to attend to intellectual matters, even in their most primitive form, the force which tends to preserve what the intellect has won is also dependent on the social organisation. And lastly, since a store of intellectual possession has a stimulating effect upon creative minds, which would otherwise be condemned to be always beginning anew, everything which strengthens the force of tradition in a race will have a favourable effect upon the further development of its store of ideas, discoveries, inventions. Those natural conditions, therefore, may be regarded as indirectly most especially favourable to intellectual development, which affect the density of the whole population, the productive activity of individuals, and therewith the enrichment of the community. But the wide extension of a race and abundant possibilities of commerce are also operative in this direction. If we consider, not finding only, but the preservation of what has been found—by diffusion through a wide sphere and incorporation with the permanent stock of culture,—is essential to invention, we shall comprehend that this element of invention, so important for progress, will not attain an equally effective character in all stages of civilization. Every-

thing tends to limit its effectiveness in the lower stages, for the lower we go in civilization, the less is the interdependence of men kept up; and for this reason the progress of culture in the other direction acquires an accelerated pace.

How many inventions of men may have been lost in the long ages before great communities were formed! Even today how many do we see fallen with their inventors into oblivion, or, in the most favourable case, laboriously dug up again and so preserved? And who can measure the inertia of the stubborn opposition which stands in the way of the birth of new ideas? We may remember Cook's description of the New Zealanders in the report of his second voyage: "The New Zealanders seem perfectly content with the scraps of knowledge which they possess, without showing the least impulse to improve upon them. Nor do they show any particular curiosity either in their questions or their remarks. Novelties do not surprise them as much as one would expect; nay, they do not hold their attention for an instant." We know now that on the remote Easter Island writing, the most important of inventions, was generally known. It seems to have died out there without leaving any offspring.



Wooden shield with picture-writing, perhaps a chief's breast-plate, from Easter Island. (Christy Collection.)

What a vista of eternally futile starts opens when we think of this mental immobility and this lack of quickening interdependence! We get a feeling that all the sweat which the struggle after new improvements has cost our age of inventions is but a drop in the ocean of labours wherein the inventors of primitive times were submerged. The germ of civilization will not grow in every soil. The bulk of civilized methods which a race is capable of assimilating is in direct proportion to its average of civilization. Anything that is offered to it beyond this is only received externally, and remains of no importance to the life of the race, passing as time goes on into oblivion or rigidity. To this must be referred the ethnographical poverty found in the lower strata of ethnographically richer races.

If we draw conclusions from certain acquisitions of culture which may be found among a people, such as garden plants, domestic animals, implements, and the like, to its contact with some other people, we may easily forget this simple but important circumstance. Many institutions among the inhabitants of our mountains fail to betray the fact that they have lived for ages in the neighbourhood of a high civilization; the Bushmen have appropriated astonishingly little of the more copious store of weapons, implements, dexterity, possessed by the Bechuanas. On the one side the stock of culture progresses, on the other it retrogrades or stands still, a condition into which a movement, evidently in its nature not strong, easily passes. This is an instructive phenomenon, and a comparison of various degrees of this stationariness is specially attractive. Any one who starts with the view that pottery is a very primitive invention, less remote than almost any other from the natural man, will note with astonishment, not in Australia only but in Polynesia, how a talented race, in the face of needs by no means inconsiderable, manages to get along without that art. And when he finds it in existence only in Tonga and the small Easter Island at the extreme eastern limit of Polynesia, he will be apt to think how much more the intercourse between lands and islands has contributed to the enrichment of men's stock of culture than has independent invention. But that even here again intercourse is very capricious, we learn from the absence of this art among the Assiniboines of North America, next door to the Mandans, who excel in it. Here we learn that inventions do not spread like a prairie-fire, but that human will takes a hand in the game which, not without caprice, indolently declines some things and all the more readily accepts others. The tendency to stand still at a stage that has been once reached is greater in proportion as the average of civilization is lower. You do just what is enough and no more. Just because the Polynesians were able to heat water by putting red-hot stones into it, they would never have proceeded to pottery without foreign aid. We must beware of thinking even simple inventions necessary. It seems far more correct to credit the intellect of "natural" races with great sterility in all that does not touch the most immediate objects of life. Migrations may also have given occasion for sundry losses, since the raw material often occurs only in limited quantity, and every great migration causes a rift in tradition. *Tapa* plays an important part among the Polynesians, but the Maoris lost the art of its manufacture. In these lower stages of civilization the whole social life is much more dependent upon the rise than upon the loss of some simple invention than is the case in the higher. The nearer life stands to Nature, the thinner the layer of culture in which it is rooted, the shorter the fibres which it strikes down to the natural soil, the

more comprehensive, the further-reaching every change in that soil naturally is. The invention of the way to manufacture clothing, whether in the form of woven stuffs or of beaten bark, is surely natural and yet rich in results. The entire refinement of existence among the natural races of Polynesia, resting upon cleanliness and modesty, and sufficient by itself to give them a high place, is inconceivable without the inconspicuous material known as *tapa*. Bark is converted into a stuff for clothing, which provides not only a plentiful covering for the body but also a certain luxury in the frequent change it allows, a certain taste in wearing and in the selection of colours and patterns, and, lastly, a means of amassing capital by preserving stores of this material which are always convertible. Think, on the other hand, of an Eskimo's skin coat or a Negress's leather apron, which are worn through successive generations and laden with the dirt of them. *Tapa*, a material which can be provided in quantities without much trouble, naturally represses the weaver's art, which can only have proceeded by a long and toilsome road from plaiting. In the lake-dwellings there are products which, with equal justice, are referred to both one and the other form of work. This suggests the relations between basket-weaving and pottery; large earthenware vessels were made by covering baskets with clay. There is no need on this account, with William H. Holmes, to call the whole art of pottery, as contrasted with plaiting, a "servile art," but this outgrowth is instructive.

The fact that the most necessary kinds of knowledge and dexterity are spread throughout mankind, so that the total impression of the stock of culture possessed by the "natural" races is one of a fundamental uniformity, gives rise to a further feeling that this scanty stock is only the remains of a larger total of possessions from which all that was not absolutely necessary has gradually dropped out. Or can we suppose that the art of producing fire by friction made its way all alone through the world, or the art of making bows and arrows? To discuss these questions is important, not only in order to estimate the measure of the inventive talent possessed by natural races, but also to obtain the right perspective for the history of primitive humanity, for it must be possible to read in the stock of culture, if anywhere, from what elements and by what ways mankind of to-day has become what it is. Now if we pass in review what is possessed by the natural races in artifices, implements, weapons, and so on, and deduct what is and has been imported, in some cases already to a large extent, by means of trade with modern civilized races, we are inclined to form a high conception of their inventive talent. But what guarantee have we of the independent discovery of all these things? Undoubtedly before there were any relations with Europeans, relations existed with other races which reached down to these lower strata, and thus many a crumb must have fallen here from the richly spread tables of the old civilizations of Egypt, Mesopotamia, India, China, and Japan, and has continued here in a mutilated shape perhaps quite alien to the original uses served by it. The ethnographer knows cases enough of such borrowings; every single race shows examples of them. Nor is the examination of their nature and significance anything new. We may specially recall an original remark of Livingstone's which, though made with another intention, is fairly applicable here: "The existence of various implements which are in use among the Africans and other partially civilized races, points to the communication of an instruction which must have proceeded at some time or another from a superhuman being." Think

as we may about the conclusion of this remark, its main point is fully justified as a contradiction of the widespread assumption that everything which natural races have to show of their own came into existence in the place where it is now seen, and was invented by those races themselves. When we find all races in Africa, from Moors to Hottentots, producing and working iron after one and the same method, it is far more probable that this art reached them all from a common source than that it was independently discovered in all parts alike. At one time people pointed triumphantly to the turkey as an animal which had been independently domesticated by barbarous races, until Spencer Baird discovered in Mexico the ancestor of this ill-tempered sovereign of the poultry-yard. In the matter of utensils, borrowing from civilization is naturally more difficult to prove, since these do not, like plants and animals, bear about them, however obliterated, the marks of their origin. But may not the Indian, who got his maize from Mexico, have learnt from the same quarter the art of his delicate stone-work? Such introduction, together with its consequence of the widest possible propagation, must seem to us more natural than the independent invention of one and the same utensil, or one and the same touch of art in a dozen different places. Attention has been quite recently called to the fact that the Solomon Islanders have bows and arrows, while the inhabitants of New Ireland and others in the neighbourhood have not, and people were quite ready to credit the former with the invention of this ingenious weapon. As has been already pointed out, people are, in this matter, wonderfully inconsistent. On the one hand the natural races are put down to the level of the brute, on the other hand inventions are ascribed to them which are, at least, not of an easy kind. One is always too apt to think of invention as easy, considering only the difficulties of finding out, which for a brain of genius are small; but it is otherwise with the retaining of what has been found out. In some cases it has been possible to penetrate down to the more remote origin of apparently quite spontaneous productions of "natural" races. Bastian has compiled a list of cases in which certain elements of European civilization have been formally imitated; a good instance being the characteristic Fijian form of club copied from a musket of the last century. The savages thought they would have the dreaded weapon at least in wood, and produced a club remarkably ill-adapted to its proper purpose. A head-dress used in the New Hebrides is a colossal exaggeration of an admiral's cocked-hat. The remarkable cross-bow used by the Fans is more to the purpose. It reached the Fans of the interior from the Portuguese discoverers on the west coast, and they retained the pattern, while on the coast firearms came into use, as in Europe. Now, after four hundred years, the cross-bow turns up again; but as the Fans have neither the patience nor the tools to fashion a lock, they slit the stock, and use the cross-bow to shoot little poisoned arrows which might just as well be shot from a light long-bow.

If it were less difficult to seize the manifestations of intellectual life among the lower races, we should be able to gather a much richer harvest among them. Indian traces run through the religion of the Malays, and extend perhaps to Melanesia and Polynesia. We find such striking similarities, especially in the cosmogonic legends of Bushmen and Australians, Polynesians, and North Americans, that nothing but tradition is left to explain them. So in the domain of politics we find points of accord. The institutions of Kazembe's country, as described by Lacerda and Livingstone, or Muata Jamvo's, as reported by Pogge and Buchner,

remind us partly of India, partly of ancient Egypt. In the domain of social and political conceptions and institutions, the coincidences are striking. The deeper we search into these matters, the more convinced we are of the correctness of an expression used by Bastian at a date when the sharp division of races was a gospel, and the unity of mankind was scouted. In his *Journey to San Salvador* he says: "Even to the islands slumbering on the bosom of the Pacific, ocean-currents seem to have driven the message of the more abstract triumphs of civilization; perhaps even to the shores of the American continent." We may be permitted to add the conclusion that no one understands the natural races who does not make due allowance for their intercourse and connection, often disguised as it is, with each other, and with civilized peoples. There is, and always has been, more intercourse between them than one would suppose from a superficial observation. Thus, long before the Nile route was opened to traffic, wares of European origin, especially pearls, made their way from Darfour by Hofrat el Nahas, even to the Azandeh. Where strong resemblances occur, the question of intercourse, of communication from abroad, should always be raised in the first instance; in many cases possibly that of very direct intercourse. We think that we are quite justified in asking whether it is not by fugitive slaves that so many elements of African civilization have been spread through South America. For centuries the Japanese have had very little intercourse with the races of the North Pacific; yet it may be that we ought to refer to some such intercourse as this (which, in truth, not only enlarges, but, as time goes on, always tends to decompose) the wicker armour worn by the Chukchis, so like Japanese armour. Thus, however, races formerly depended on each other; and no more than at present was there ever on this earth, so far as our historical knowledge shows, a group of men who could be said to be devoid of relations with others. Everywhere we see agreements, similarities, affinities, radiating out till they form a close network over the earth; even the most remote islanders can only be understood when we take into account their neighbours, far and near.

Human figure and *medusa* in walrus-ivory, from (?) Tahiti. (Vienna Ethnographical Museum.)

These most remote islands, too, show how indigenous industries always dwindle where European or American manufactures come. When Hamilton visited Car Nicobar in 1790, the women wore a kind of short petticoat, made of tufts of grass or rushes strung in a row, which simply hung down; now they universally cover up their bodies with stuff cloths. Thus a century's progress has resulted in the replacing of the grass petticoat by woven materials. Meanwhile, the domestic industry perishes, and no new dexterity arises in its stead. On the lower Congo we no longer find the bark-stuffs and fine webs which Lopez and other travellers of the sixteenth century prized so highly. Where, too, is the art of grinding amber and obsidian, which produced such conspicuous results in ancient Mexico? or the goldsmith's work and tapestry of the old Peruvians?

For estimating the importance of external suggestion, nothing is more instructive than the consideration of races which are poorest in an ethnographical sense. Of them we can say that they are invariably also those whose intercourse with others is scantiest. Why are the most remote races at the extremities of the

continents or on the less accessible islands the most destitute? Ethnographic poverty is only in part a consequence of the penury, the general poverty, which presses on a people. This has been readily recognised in the case of many races, as, for instance, the Australians, whose life on the arid steppes of their continent, almost destitute of useful plants and animals, is one of the poorest and most depressed that has been allotted to any race on the earth. But even in the most favoured northern tracts within the tropics, they are almost totally devoid of that tendency to the artistic adornment of existence which flourishes so profusely among their Papuan neighbours, and forms the luxury of barbarous races. In this case we need not seek far for the causes of their ethnographical poverty. Every glance at the conditions and mode of these people's life shows how sharp is their struggle to maintain bare existence, but it also shows the impoverishing

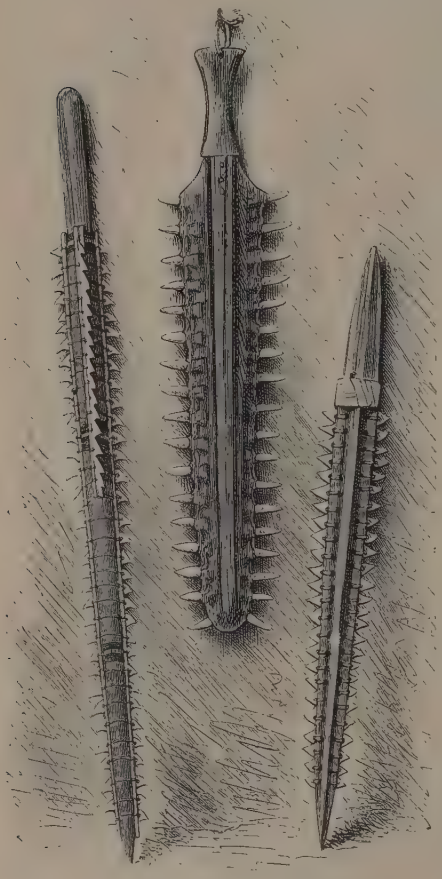
Shell and bone fish-hooks from Oceania. The larger one on the right probably of North American origin. (Vienna Ethnographical Museum.)

effects of remoteness from the great streams of traffic. The out-of-the-way situation of Australia, southern South America, the interior of South Africa, and eastern Polynesia, exercises the same impoverishing influence everywhere upon the indigenous races. If any one is inclined to see in this a sort of contagion of poverty, referable to the smaller number of suggestions offered under these conditions by Nature to the mind, and especially to the fancy, he must beware of hasty conclusions. Easter Island, though small, and by nature poor, is ethnographically rich; and hardly any barbarous race is superior in artistic development to the Eskimo.

We know how the utensils and weapons of civilized races have spread as it were by stages and continue to spread to races which previously possessed no notion of them. When Stanley crossed the Dark Continent, on his first remarkable journey along the Congo, the last point where firearms were seen in native hands was left on the east at the famous market-town of Nyangwe. He came upon them again to the westward at Nbenga, 6° north of Nyangwe, in the shape of those four old Portuguese muskets, ever to be historical as the first sign from which the party learned, at the most critical moment of their journey, "that we had not missed the way, and that the great stream really reached the sea." Nyangwe and Nbenga are on the borders of an area of 200,000 to 250,000 square miles wherein firearms, with which the coasts of Africa have roared these four hundred years, were a few years ago unknown. It is true that other things have been

more quickly diffused, as for instance those American products which were not brought here till the sixteenth century—tobacco, maize, and potatoes. But they too have travelled by stages; the Damaras have only come to know tobacco within the last few dozen years.

To this fact of the importance of intercourse we must ascribe the striking uniformity of motive seen in productions of ethnographical interest even in rich districts; as when the island-world of Melanesia and Polynesia, so far as concerns the distribution of utensils and weapons, presents the picture of a meadow in which the same main elements spring up everywhere in the vegetation, thinner in one place, thicker in another, here showing better, here less good condition, and only rarely mingled with such peculiar growths as wonderfully animate the picture. And just as amid the monotonous herbage on the barren soil of a steppe, we often suddenly see one plant above the rest unfold itself in luxuriance, so is it here. The intellect of races, torpid as it is in the matter of following up what it has got, suddenly receives from some side or other an impulse towards freer unfolding. It is well worth while to study first these isolated developments, even in the grotesque. It is interesting too to see at what manifold forms the people of small islands in Polynesia have arrived in a set of fish-hooks, through their devotion to fishing; or how others, by dint of a consistent progress in a definite direction, have appropriated some remarkable style of weapon, demanding much industry and ingenuity. The art of fitting-up weapons with sharks' teeth, to such an extent that one might suppose one

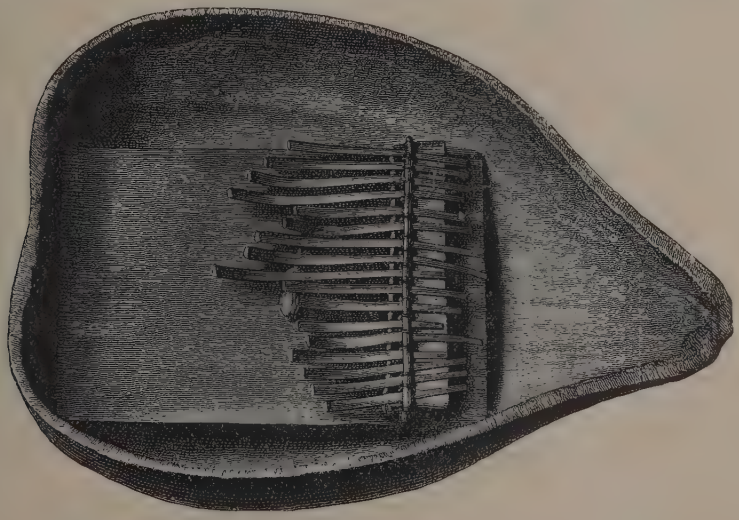


Weapons set with shark's teeth, from the Gilbert Islands. (Munich Ethnographical Museum.)

Monbuttu tobacco-pipe carved in wood and ornamented with copper wire—one-tenth real size. (Christy Collection.)

had to do with a people of no small numbers and strength, living in constant war, reached its highest point in the Gilbert or Kingsmill Islands with an area of 185 square miles and a population of not more than 35,000. These weapons surpass in gruesomeness those of any other race in Polynesia, and the equipment which corresponds to them is brought to a finish that we find nowhere else but in Japan and New Guinea. Thus under uniformity of fundamental idea almost every island-group conceals its own more or less perfected special features; even if it be only that invariable little human figure, easily overlooked, found on all Tongan carved-work. Among continental races such features naturally are more limited in their appearance. But even here, every circle of culture, however narrow, has its own little peculiarities, which establish themselves with a certain consistency in the most various domains. Just as among the West Africans we can point to the predilection for representing what is ugly, as a characteristic of this kind, so

Carved and painted figure from Dahomey. (Berlin Ethnographical Museum.)



Zanza, a musical instrument used over a great part of Central and South Africa.

among the forest-negroes we have the frequent employment of banana-leaves in the place of leather, hide, or stuff—a theme upon which the Monbuttus play endless variations. This race offers at the same time an interesting example of a general high-development of industry under favourable conditions. When the storms of the period passed harmless round a peaceful oasis, as was once the

case with Monbuttuland, the rich soil of wealth in material and natural ability allowed a fine flower to expand; destined however to a short existence. Its fame spread far and wide in Africa. The actual discovery of the Monbuttus by Schweinfurth was preceded by rumours, reaching even to Europe, not only of their brown colour, but of their high degree of civilization; and that traveller himself reports that even in the district of the Bahr-el-Ghazal he gathered from the conversation of the ivory-traders how they were looked upon as a peculiar and distinguished people. But, above all, the cleverness of the people in the repair of warlike weapons and peaceful utensils is highly esteemed. The high position which the negroes of Africa hold in the manufacture of the most varied musical instruments is quite a unique phenomenon, and has provided endless material for eulogistic descriptions. Yet with all this the industry of the Monbottus always remains a negro industry, often applied to the same themes as we find among the Nile negroes and the Kaffirs. One of the most difficult tasks we can undertake is when, as here, we have to define a gradation in the degree of perfection reached by any branch of human activity, and yet at the same time such tasks are among those that can best be justified if any genealogical conclusion is to be drawn from this gradation. We notice a difference in the development of shipbuilding between two races dwelling so near each other as the Fijians and Tongans; the latter, of Polynesian descent, in this matter surpassing to a noteworthy extent the Fijians, who are to be reckoned among Melanesians. The difference is not great, but very important, since it contributes to the confirmation of our view that the Melanesians, who have been longer established, received the high development of their shipbuilding and navigation from the later arrived Polynesians, and not *vice-versâ*. Yet it is obviously always difficult to judge with certainty in such a case, all the more so that a race superior in general culture may in the matter of individual points of knowledge and knack be behind some who on the whole belong to a lower stage. The superiority in smith's work of the Djurs over the Nubians, or the manifest advantage which the Musgus possess as agriculturists over their Soudanese masters, appears an anomaly. The clever-

Fan warrior with crossbow. (After Du Chaillu.)

ness of the negroes in both these directions has astonished even Europeans. If the facts were not so clear, any one would be predisposed to ascribe to people like the Arabs or Borneans, who in many other respects possess so superior a civilization, the education of the negroes to the excellence which they have attained in these arts. But the very fact that the Arabs had something to learn from the negroes in agriculture and house-building testifies to the antiquity in Africa of an indigenous semi-civilization based upon agriculture.

It is quite wrong to believe that we do not meet with division of labour before reaching a somewhat advanced stage of economic development: Central Africa has its villages of blacksmiths, nay, of smiths who only make throwing-knives; New Guinea its potter villages; North America its finishers of arrowheads. Hence arise those remarkable social and political groups which from guilds become castes, and from castes privileged classes in a race. Hunting-races, who stand towards the agriculturist in a mutual relation of traffic in products, are scattered with special frequency about Africa. Besides these specialised activities there are others distributed among those people who practise their art only occasionally as need requires. The form and fashion of their work therefore often appears in the shape of a busy idleness. A man who has just then nothing better to do polishes a great *trochus* for an arm band, or files some other kind of shell for a finger ring, or prefers to do the engraved work on a club to which he has for years past devoted his leisure. This habit of working with the most liberal expenditure of time, and quite at ease, goes far to explain the perfection of the things produced. No doubt they are for the most part articles for immediate use and not for traffic, and trade profits little by this limited though persevering labour; whereas an active trade is closely connected with the industries mentioned above.

§ 9. AGRICULTURE AND CATTLE-BREEDING

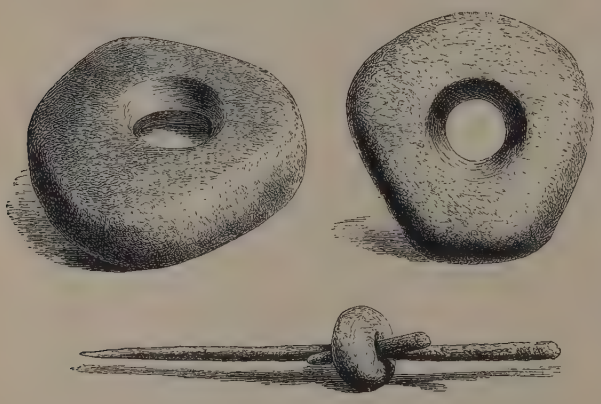
Origin of agriculture—First stages—Limitation of nature—Breeding animals—Taming animals—Influence of cattle-breeding upon national destiny—Nomadism—Influence of agriculture—Low place taken by agriculture among "natural" races—Food and feeding.

In view of man's profound dependence on Nature, none of the suggestions which she offers to him will sooner prove beneficial than those which tend to modify that dependence by so far as possible placing under his own control the bonds which link him to the rest of the animated world. The way to this lies in the permanent appropriation by means of tillage and breeding of useful plants and animals.

Doubtless there never was a time when man could, without trouble, acquire food, shelter, livelihood, by drawing upon Nature. Nature nowhere brings the food to his mouth, nor roofs his hut adequately over his head. Even the Australian who, in order to get his victuals, does no more than prepare a sharp or spade-ended stick to grub roots, or chop nicks in the trees with his axe to support his feet in climbing, or make weapons, fish-spear, net, or hook, or traps for smaller animals, pitfalls for larger—even he must take some trouble, and that not entirely bodily, to help himself. Even in his case the various artifices by which he manages to exploit what Nature freely gives indicate a certain develop-

ment of the faculties. Nor does this go on regardless of rights and laws. The Australians, like all other hunting races, even the Eskimo, are bound to definite districts. It is only within their own hunting-grounds that they shift their habitation according to the time of year and the supply of game.

It is, however, but a poorly productive capital that is invested in all these dexterities and contrivances, which have only a momentary use, and from which no permanent gains in the way of culture can accrue. From this situation, dependent as it is, and for that very reason easy, man raises himself to a higher stage by engaging Nature in certain directions to more durable performance. To this shaking-up and awakening, want is more favourable than abundance. In many respects Nature comes to his aid, having supplied various countries very variously with crops which can be made available for agriculture. We may regard as especially favourable those regions where there is a marked difference in the seasons, Nature at one time emerging in the fullest creative vigour, at another lying dead and benumbed, as in the steppes. Some steppe regions contain by no means a small supply of food crops; for in the effort to hoard nutriment and moisture for the future germ during the dry season, Nature has stored in grains, tubers, bulbs, and fruits exactly what man can best use. These countries then offer him not only the inducement to store up and put in barns, but at the same time the most suitable growths for the purpose. Our varieties of crops must come in great measure from these regions.



Stick used by Bushmen in digging roots, and stone weights for the same. (Berlin Museum of Ethnology.)

When man sets to work to add something from his own resources to what Nature does for him, a simple solution of the problem lies in an attempt to bottle up as it were the sources of his food supply. Even now many of those Australian races whom we regard as standing on the lowest step of civilization, strictly prohibit the pulling-up of plants which have edible fruit, and the destruction of birds' nests. They are content simply to let Nature work for them, only taking thought not to disturb her. Wild bees' nests are often emptied with such regularity that a kind of primitive bee-keeping grows up. So with other animals: man allows them to lay up the provision which he subsequently takes away, and thus is led in another direction to the verge of cultivation. Drege instances the case of *Arthratherum brevifolium*, a grain-bearing grass in Namaqua-land, the seed of which the Bushmen take from the ants.

Here Nature frames a check for man, and teaches him thrift. On the other side, the tendency to settlement is encouraged. Where large provision of fruits is found whole tribes come at the gathering time from all sides, and remain as long as the food lasts. Thus to this day the Zanderillos of Mexico come to the

sandy lowlands of the Coatzacoalco when the melons are ripe; or the Ojibbeways assemble round the marshes where the *Zizania*, or water-rice, grows; or the Australians hold a kind of harvest festivity in the neighbourhood of the marsiliaceous plants which serve them for grain. Thus on two sides the barriers of savage nature are broken down. The son of the desert is beginning to look ahead, and is on the way to become settled. From this stage to the great epoch-making discovery that he must commit the seed to the earth in order to stimulate Nature to richer performance, may in point of time have been far, but as we think of it the step does not seem long.

Loango negress at field-work. (From a photograph by Dr. Falkenstein.)

The beginnings of cattle-breeding show yet further how man succeeded in knitting an important part of Nature with his own fortunes. The roaming barbarian, who for certain periods is quite away from mankind, tries to get from Nature either what is most like himself, or what seems less likely to make him conscious of his own weakness and smallness. Now the animal world, though separated by a deep gulf from man of to-day, includes, in its gentler and more docile members, the natural qualities with which he likes best to associate himself. The delight which Indians, or Dyaks, or Nile-negroes take in taming wild animals is well known. Their huts are full of monkeys, parrots, and other playmates. It may be that the strong impulse to companionship which exists in man may have had more to do with the first effective step towards acquiring domestic animals than any eye to the use to be made of them. Thus we find, no less among the lowest races of existing mankind than in the remains of civilization anterior to the introduction of domestic animals and cultivated plants, the dog as the sole permanent companion; and his usefulness is limited enough.[1] Generally, indeed, it is difficult

[1] [May not his use in hunting, which is considerable, have been discovered by men in the hunting-stage of development?]

to draw any certain conclusion from the purpose which an animal serves in our civilization, as to that for which man first associated him with himself. In Africa and Oceania the dog is used for food. We may suppose that the horse and the camel were in the first instance tamed, not so much for the sake of their speed as for the milk of their females. A certain friendship, even in more civilized countries, attaches the shepherd to the members of his flock. Thus cattle-farming is a pursuit which arouses more enthusiasm than agriculture. It is more often the men's work, and exercises a far deeper influence on all private and public relations. Nowhere in Africa do the fruits of the field form to the same extent as the herds the basis of life, the source of pleasure, the measure of wealth, the means of acquiring all other desirable articles, especially women; lastly even currency, as when *pecus* gave its name to *pecunia*. Many a race has carried this identification of its existence with its favourite animal to a dangerous excess. Even when their stage of culture is well advanced these cattle-farming peoples suffer from the narrow basis in which their livelihood rests. The Basutos are, all things considered, the best branch of the great Bechuana stock, but the theft of their cattle alone was enough to reduce them to impotence. Similarly the rinderpest of recent years has ruined the Masai and Wagogo.

But the great influence which cattle-breeding produces upon a race is to make it restless. Pastoral life and nomad life are practically synonymous. Even our own alp-system, with its changes from valley to mountain pastures, is a fragment of nomadism. Pastoral life requires wide spaces, and agrees with the restless tendencies of the more forcible races. The desert is preferred to the fertile country, as more spacious. The Rhenish missionaries had specially to undertake the task of inducing some of the Namaqua tribes to settle on fertile oases. How little nomads care to utilise Nature more thoroughly we may learn from the fact that as a rule they hoard no provision for the winter. In the country about Gobabis on the Nosob River, Chapman found the grass growing a yard high, and so thick that it would have been easy to make hay in abundance; but as a rule the Namaquas allowed it to be burnt without attempting to use it. This sort of indifference tends to increase the contrast between nomadism and agriculture, and assumes the character of a great obstacle to civilization. Prjewalski, in his account of his first journey, has described this boundary, the boundary of both Nature and culture, between steppe and farm land, between "the cold desert plateau and the warm, fertile, and well-watered plain of China, intersected by mountain-chains," as marked with wonderful sharpness. He agrees with Ritter that this question of situation is what decides the historic fortunes of races which inhabit countries closely bordering on each other. When he enters the Ordos country—that steppe region, so important in history, which lies in the bend of the upper Hoangho,—he says of the races in those parts: "Dissimilar as they are, both in mode of life and in character, they were destined by Nature to remain alien to each other, and in a state of mutual hatred. To the Chinese, a restless nomad life, full of privation, was inconceivable and despicable; the nomad looked with contempt at the life of his agricultural neighbour with all its cares and toils, and esteemed his own savage freedom the greatest happiness on earth. This is the actual source of the distinction in character between the races: the laborious Chinese, who from time immemorial has attained to a comparatively high and very peculiar civilization, always avoided war, and looked on it as the greatest misfortune; while on the other hand the

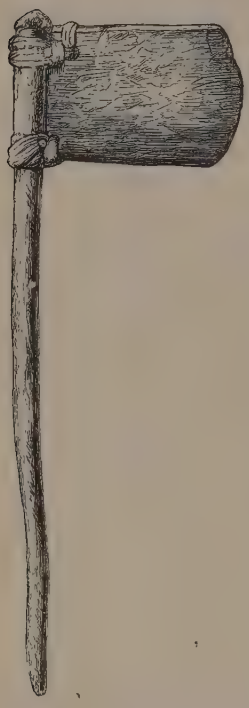
active and savage inhabitant of the Mongolian desert, hardened against all physical consequences, was ever ready for raiding and reiving. If he failed he lost but little, while in the event of success he secured the wealth accumulated by the labour of several generations."

Here we have the contrast between the most characteristically nomad race and the most sedentary agriculturists,—a contrast with whose historical results in many gradations we shall meet as we go along, in the chapters of this book which describe races. Only we must not forget that sedentary life in this degree is found in a race of ancient civilization. It is otherwise with the "natural" races. When we consider the position of agricultural barbarians, we shall often no doubt attach less weight to the difference, in other respects of so much ethnographic importance, between nomadic and settled races; for what is the significance of a sedentary mode of life if its great civilizing advantage, continuity, and security of life, and if possible of progress, is taken out of it? As a matter of fact even the best cultivators among the African races are astonishingly movable; and the majority of villages, even of the smaller races, seldom remain for many generations in the same spot. Thus the distinction between pastoral and agricultural life becomes much smaller. The African Negro is the finest agriculturist of all "natural" races, except perhaps some Malayan tribes, as, say, the Battaks of Sumatra. He contends with a luxuriant nature, fells trees, and burns the coppice, to make room for the plough. Round the hut of a Bongo or a Musgu you will find a greater variety of garden plants than in the fields and gardens of a German village. He grows more than he requires, and preserves the surplus in granaries above or under the ground. But the force of the soil and the man is not utilised to the full. It is a small cultivation, a kind of gardening. Codrington's expression, "horticultural people," used by him of the Melanesians, may be applied to many other "natural" races. Apart from the fact that the man does not in many cases devote himself wholly to agriculture, imperfect tools tend to perpetuate the lower stage. The women and children, with the unpractical hoes shown in our illustrations, do no more than scratch the surface. The plough, not to mention the harrow, has nowhere become customary among genuinely barbarous peoples; manuring, except for the ashes of the burnt brushwood, just as little. One much more often comes across terracing and artificial irrigation.

Iron hoe from Kordofan. The blade is also used as currency—one-eighth real size. (Christy Collection.)

Agriculture, limited in the tropics by the hostility of the forces of Nature, is equally so in the temperate zones by the lesser fertility of the soil, and the less favourable climate. It was never carried on here to the same extent as in the tropics, but rather formed a subsidiary branch of economy; it fell mainly into the hands of the women, and was a provision only for the utmost need. In contrast to the wide diffusion which newly-imported plants obtained among the Africans, it is significant that the New Zealanders, though they were from the

first very fond of potatoes, never planted any of their own free will, but, on the contrary, grubbed up almost the whole of the ground which Captain Furneaux had tilled for their benefit. Still, it is just here that, with persistence, agriculture renders possible higher developments than cattle-farming can do. It is steadier, and forces on a man the wholesome habit of labour. In Mexico and Peru it is followed by the accumulation of capital, and the development of industry and trade; and therewith by the occasion for a fuller organisation of social ranks. European cultivation is an entirely new system; apart from its more effective implements and methods, it proceeds on broader lines. It has abandoned the gardening style possessed by the agriculture of Negroes and Polynesians, even by that of the industrious peoples of east and south Asia.



Hoe or grubbing-axe of turtle-bone, from the Mortlock Islands. (British Museum.)

This kind of agriculture does not make the daily bread secure. Even the most active cultivators in Africa have to go without security against changes of luck. The behaviour of the elements cannot be reckoned upon. Drought especially does not spare these tropical Paradises; and famine often forms a scourge of the population in the most fertile regions. This alone is sufficient to prevent these races from passing a certain line, beyond which their development to a higher civilization is alone possible. All the good of a good year is trodden out by a famine year with its results of cannibalism and the sale of children. In the tropics, too, damp makes the storage of provisions difficult. In Africa, again, the devastation of ants and weevils makes it hard to keep the chief crop, millet, till the next harvest. However much they plant, and however plentiful the harvest turns out, everything must be consumed in the year. This again is one reason why the negroes brew so much beer. Herein, however, whatever may be the fault of the climate, undoubtedly lies one of the imperfections whereby agriculture will necessarily be beset among a race in whose customs foresight and endurance are hardly developed, and are incapable of linking the activities of individual persons and individual days with a strong thread of necessary interdependence. And here, too, human foes, those "communists of nature" who equalise all property, take good care that the steady prosperity of agriculture shall not create too deep a gulf between it and nomadism.

In the matter of food, "natural" races, even when they carry on agriculture, strive with avidity to get animal adjuncts. Contrary to our physiological notions, fat and blood are consumed in quantities even by purely tropical races, like the Polynesians; and it is just in these things that gluttony is practised. The nearest approach to vegetarianism is made by the rice-planting peoples of east Asia and the banana-planting negroes of the forest, as formerly by the civilized races of America. The races of the far north eat, no doubt, more than we suppose of wild plants; but they rely especially on the fat and flesh of sea-mammals. Some nomad groups support themselves with superstitious exclusiveness on meat

and milk. Roots are eagerly sought. Salt is liked in all parts of the earth, and the fondness for meat and blood is based in some measure on the craving for it. By rapid and thorough roasting the salts of the meat-juices are rendered more highly serviceable. Every race in all parts of the earth has hit upon some means of enjoying caffein compounds and alcohol. Tobacco is not the only narcotic herb that is smoked. The methods of chewing betel and coca are strikingly alike. The knowledge of many poisons has come to civilized races from barbarians.

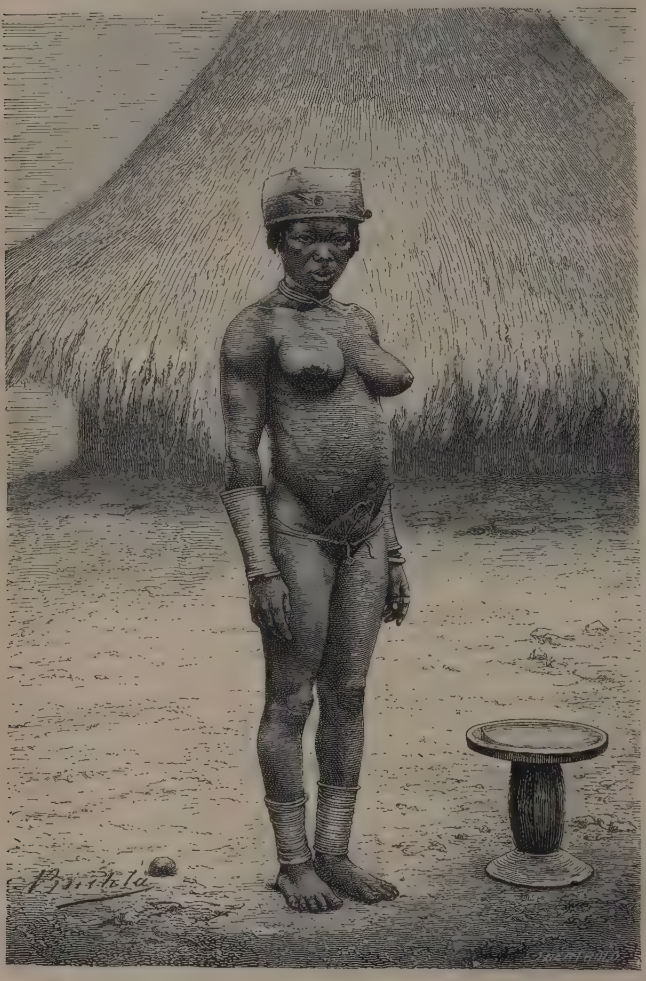
§ 10. CLOTHING AND ORNAMENT

Complete nudity nowhere found as a regular custom—Caprice in the matter of clothing and non-clothing—Better clothing is no absolute indication of higher culture—Fashion—Clothing begins as ornament—Natural clothing materials—Climate has little influence on clothing—Example of the Fuegians—Eskimos—Ornament found everywhere—Similarity of principle in ornament—Ornament and weapons—Mutilations—Difference of ornament according to sex—Material of ornament—Ornament and trade—Precious metals—Imitation pearls—Cleanliness.

We have heard tell of races to whom clothing is unknown; but it must be said that the few cases of this for which there is good evidence are exceptions that have arisen under such special conditions as only to establish the rule. If, however, we are to discover the principles which underlie the usage generally, the first thing required is to come to an understanding as to what we mean by clothing. It is surely impossible to designate mere ornament as clothing; among tribes in tropical countries the motive of protection against cold entirely disappears, and of all the superfluity of our northern apparel, nothing remains save what is required by decency. One need hardly discuss the question whether there is any thought of simply *protecting* the parts concealed. If it were a question of protection, the feet and ankles would surely be sooner covered. What is most decisive is the observed fact that clothing stands in unmistakable relation to the sexual life, and that the first to wear complete clothes is not the man who has to dash through the bush in hunting, but the married woman. This gives us the primary cause of wrappings, which must have arisen when the family was evolved from the unregulated intercourse of the horde,—when the man began to assert a claim to individual and definite women. He it was who compelled the woman to have no dealings with other men, and to cover herself as a means of diminishing her attractions. As a further step in this direction may be noted the veiling of the bosom. From this root, the separation of the sexes, sprang the feeling of modesty; this developed powerfully, and clothing with it. It was a great stride; since the more confined and more destitute the life of a tribe is, the less inducement is given to a rigid separation of the sexes with its attendant jealousy; and the more readily do they dispense with the troublesome covering, of which scanty fragments alone remain. Thus it is always the smallest, most degraded, most out-of-the-way tribes among whom we more especially find no mention of customary clothing; such as some Australian races, the extinct Tasmanians, some forest tribes of Brazil, and here or there a negro horde. Even with them survivals of dress are not wanting. When clothing was more complete, the woman gained

immensely in charm, esteem, and social position, so that she had every reason to keep up her wardrobe.

It is quite otherwise with the portion of the dress intended directly to protect the body. In all places we find the shoulder-covering in the shape of a cloak. Tropical tribes use it primarily to keep off the rain, while in colder climates it serves for warmth and also as a sleeping-cover. These cloak-like articles of clothing are far less widely diffused than those which serve for decency; which also proves that the latter were the first clothing worn by men.



Woman of the Azandeh, or Nyam-Nyams. (From a photograph by Richard Buchta.)

Another circumstance undoubtedly has contributed to develop the sense of modesty, as Karl von den Steinen has pointed out. As the wild beast drags his prey into the thicket, in order to devour it undisturbed, so some tribes think it highly indecorous to look at any one eating; and the same may have held good in regard to other functions. Still this can only have been subsidiary, and does not account for the original concealment. Finally we must not overlook the superstitious dread of the possible effects of the evil eye, though here again this cannot be rightly assigned as the root-idea of modesty. Curiously enough, in New Guinea no more than in ancient Greece do the representations of ancestors, with their free exhibition of what in the living is carefully concealed, seem to give any offence. But all these various causes tend to react upon and supplement each other mutually. Further, no relation can be traced between the amount of clothing worn and the degree of culture attained. The lady of Uganda or Unyoro who drapes herself with elaborate care in her robes of bark, stands in general

no higher than the Nyam-Nyam negress, whose sole garment is a leaf. Nor do the former race, who treat it as a capital offence to strip in public, hold any higher position than the Duallas, who take off every rag for their work in the sea. Nor, lastly, do we find any marked national distinctions in these matters. All things considered, we may say that in mankind of to-day modesty is universal; and where it seems to be lacking, this is due to some accidental or transitory conditions.

But this is not the only feeling which the simple man is endeavouring to satisfy when he clothes his body. Next to it stands the gratification of vanity. The former motive, as a mere injunction of custom, is quickly done with; the other is sought to be attained at any cost. One may say without exaggeration that many races spend the greater part of their thought and their labour on the adornment of their persons. These are in their own sphere greater fops than can be found in the highest civilization. The traders who deal with these simple folk know how quickly the fashions change among them, as soon as a plentiful importation of varied stuffs and articles of ornament takes place. The natural man will undergo any trouble, any discomfort, in order to beautify himself to the best of his power.

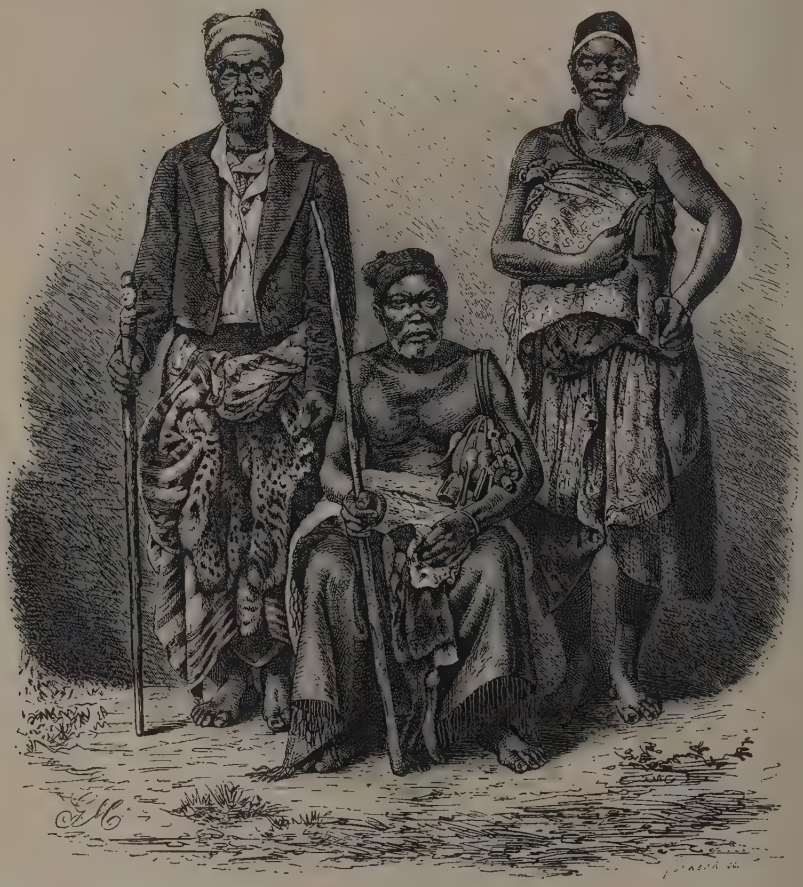
Princess of Unyoro, dressed in bark-cloth. (From a photograph by Richard Buchta.)

Thus it would obviously be unjust to form any judgment as to the absence or deficiency of clothing without regard to the other attentions which the "natural" races pay to the body. If we look at all together we get an impression of predominant frivolity. Necessaries have to give way to luxuries. The poorest Bushman makes himself an arm-ring out of a strip of hide, and never forgets to wear it, though it may well happen that his leather apron is in a scandalously tattered state. The man of low culture demands much more luxury compared with his small means than one in a higher stage. Ornament holds such a foremost place that some ethnologists have declared it impossible to decide where clothing ends and ornament begins. All clothing seems to them to have proceeded by way of modification from ornament; and they hold that modesty played no part in the earliest evolution of dress. The facts no doubt show that the delight in ornament preponderates over the sense of decency; but it does not follow that it was anterior.

Modesty in the woman is especially apt to take on a touch of coquetry, for an example of which we need look no further than the low-necked dresses of our own ball-rooms. In this way what was once an article essential to decency imperceptibly approximates more and more to ornament by the addition of fringes, or,

as among the Fans and some of the Congo tribes, by the attachment of strings of jingling bells. Even more grotesque combinations of concealment and parade may be observed; especially where there is a religious motive for the former.

The style and completeness of the clothing naturally depends in great measure upon the extent to which Nature or labour has provided material. All countries are not so benevolently furnished in this respect as tropical Brazil, where the



Village chief of the Loango coast, with wife and dignitary. (From a photograph by Dr. Falkenstein.)

"shirt-tree," a kind of *Lecythis*, grows with its pliant and easily-stripped bark. The Indians cut up the stem into lengths of 4 or 5 feet, strip the bark off, soak and beat it soft, cut two armholes, and the shirt is ready. In the same forests grows a palm, the spathe of which provides a convenient cap without further preparation. The fig-leaf of Paradise recurs in a thousand variations, and celebrates its revival by appearing in manifold forms, even to the universal rush-cloak.

The use of bark as a clothing material is, or was, widely spread from Polynesia to the west coast of Africa. It recurs in America, and thus is found in all lands

within the tropics; and besides this, the bast or inner bark of the lime was used for a similar purpose in old days by Germanic tribes. The laws of Manu prescribe to the Brahman who purposes to end his days in religious meditation amid the primeval forests, that he shall wear a garment of bark or skin. Here probably, as in Africa, the bark of a species of *Ficus* was used for the purpose. But in Polynesia the manufacture of a material called *tapa* from the bark of the paper-mulberry was carried to great perfection. Races who no longer make use of this material procure it for special occasions. Thus the more settled Kayans of Borneo, when they go into mourning, throw off their cotton *sarongs* to wrap themselves in bark-cloth; and on the west coast of Africa, at certain festivities connected with fetish-worship, it is usual to wear skins instead of clothes. In this there lies a perfectly right sentiment, that these home-invented garments, borrowed directly from Nature, have a higher intrinsic value than the rubbishy European fripperies, the invasion of which has made clothing arbitrary and undignified.

Cap made of a palm-spathe, from Brazil. (Munich Ethnographical Museum.)

How little the great schoolmistress Want can impress upon the "natural" races that seriousness which behaves appropriately at the bidding of hardship, is shown by comparing the dwellers in a severe climate with those who live under more genial skies. The South Australians and Tasmanians hardly wore more clothes than the Papuas. Considering the abundance of animals, we can only refer the scantiness of their attire to laziness. The Fuegians who are best situated, those of the east coast, wear guanaco cloaks like the Patagonians, and those of the west coast, have at least seal-skins; but among the tribes near Wollaston Island a piece of otter-skin, hardly as large as a pocket-handkerchief, often forms the only protection against the rude climate. Fastened across the breast with strings, it is pushed to one side or another, according as the wind blows. But many, says Darwin, go without even this minimum of protection. Only the Arctic races, always inventive and sensible, have in this, as in other matters, better adapted themselves to the demands of their surroundings and their climate; and their clothing of furs and bird-skins is in any case among the most rational and practical inventions in this class. They are, however, the only "natural" races of the temperate or frigid zones whose clothing is completely adapted to its purpose. The outliers of them in the North Pacific, such as the inhabitants of King William's Sound and others, may be recognised at once beside their Indian neighbours by their clothing. The Eskimo dress, which covers the whole body, obviously limits the

use of ornament. Hence we never find arm or leg-rings, and only rarely necklaces of animal's teeth or European beads; but, on the other hand, buttons, like sleeve-

Bawenda children belonging to a mission school. (From a photograph in the possession of Dr. Wangemann, Berlin).

Fur and bird skin clothing of the Ainu. (Collection of Baron von Siebold, Vienna.)

buttons, of stone or bone, not uncommonly decorate lips and ears. The fact that they tattoo the body, however, indicates a former residence in a warmer climate.

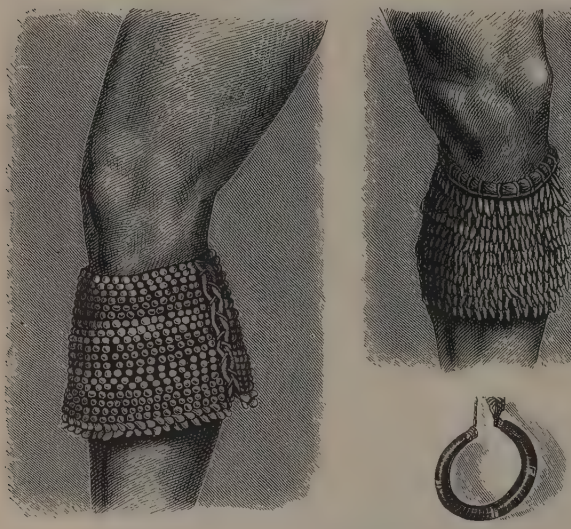
Footgear is universally worn on the march; it is generally made of hide, less often of wood or bark. Curiously enough the method of fastening sandals is essentially the same all the world over.

Among "natural" races no one goes without ornament; the contrary to what we find among civilized people, many of whom, rich and poor alike, avoid any ornamentation, either of their person or of their clothing. But the universal

Woman of New South Wales. (From a photograph in the possession of Lieutenant von Bülow, Berlin.)

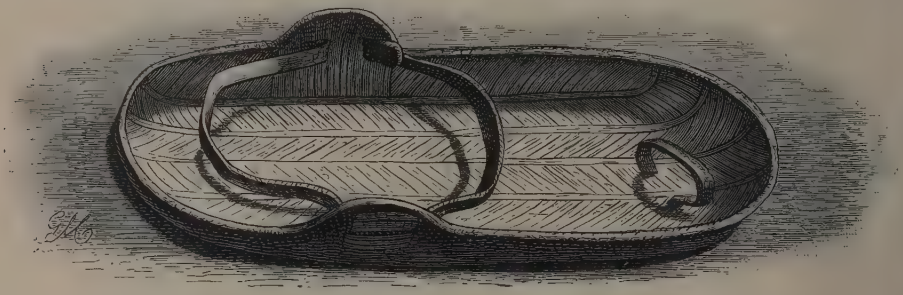
distribution of ornament seems easier when we consider its by-aims. In the first place the amulets, which are hardly ever missing, assume the shape of decorations. Hildebrandt, in his admirable work on the Wakamba, says: "Amulets are regarded as defensive weapons, and so, in a treatise on ethnography, deserve a place between weapons and ornaments." But they have more affinity with the latter than with the former. The fan is used not only to flirt, nor only even for purposes of coolness, but is an indispensable implement in kindling and maintaining the charcoal fire. The massive iron arm-rings, with which the negro bedecks himself, are adapted for both parrying and striking. The Irengas of the

Upper Nile wear these sharpened to a knife-like edge. In peace they are covered with a leather sheath, in battle they serve as fighting-rings. Of a similar kind are the arm-rings of the neighbouring Jurs, fitted with a pair of spikes. The smart dagger attached to the upper arm or hung from the neck is half weapon, half ornament. But we must reckon among genuinely decorative weapons the beautifully-carved clubs of the Melanesians and negroes, the batons of command, the decorated paddles. The savage warrior can no more do without ornament than without his weapon. Are we to suppose that this connection has so deep a psychological basis in the stimulus to self-esteem and courage given by external splendour, that it has reached even to the heights of our own military civilization?



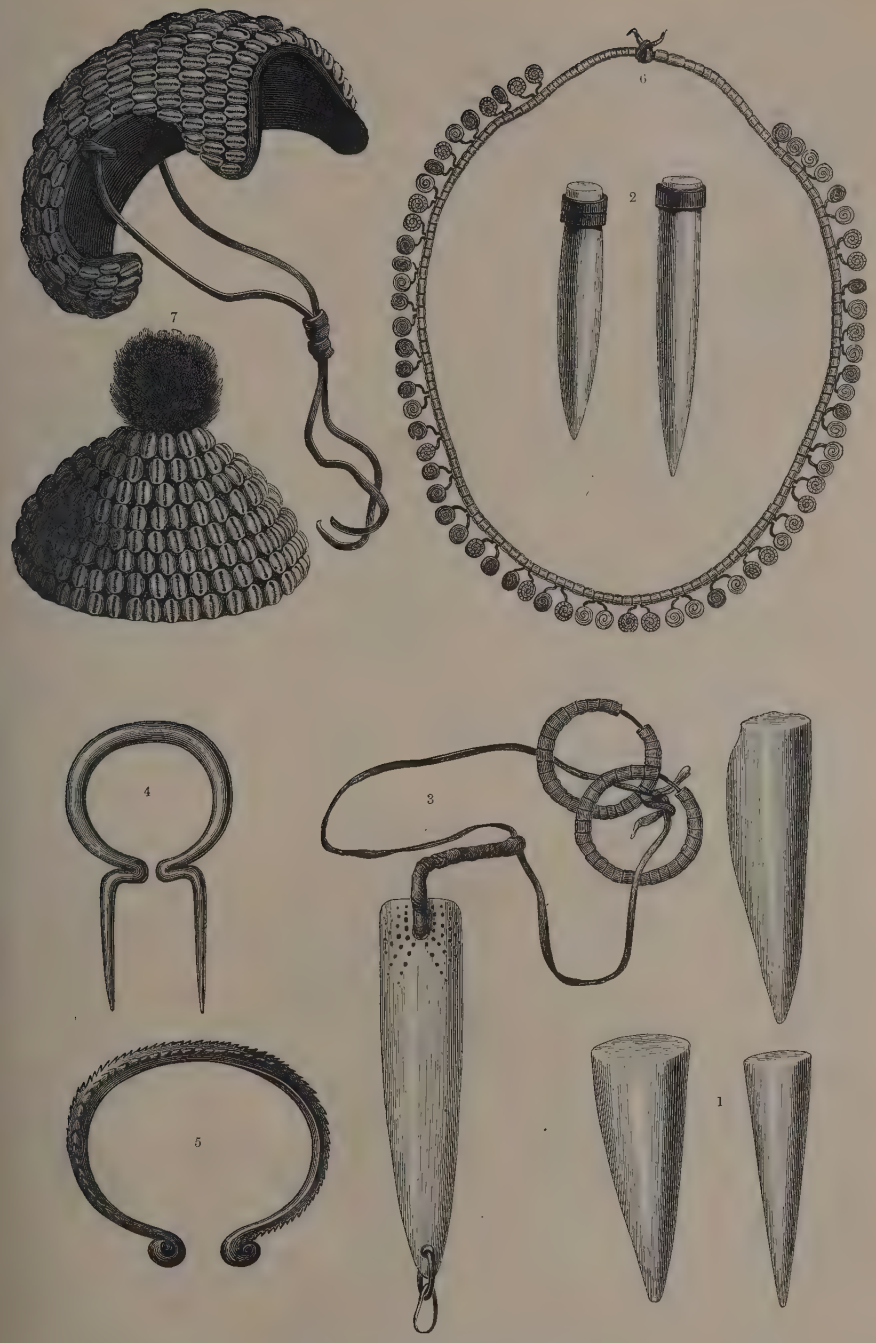
Leg ornaments of dogs' teeth, and shell armlet, from Hawaii. (Vienna Ethnographical Museum.)

Ornament and distinction again go hand in hand, though for this brilliancy and costliness are not always necessary. In East and Central Africa the chiefs wear arm and leg-rings made from the hair of the

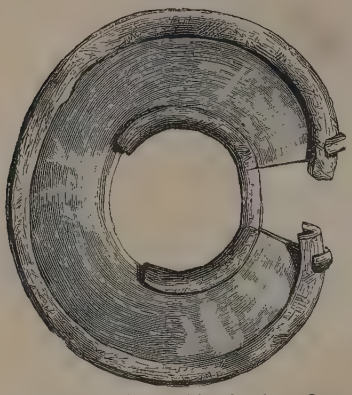


Sandal from Unyoro. (After Baker.)

giraffe's tail; in West Africa, caps from the hide of a particular antelope; while in Tonga, necklaces of the cachalot or sperm-whale's teeth serve at once for ornament, distinction, and money—perhaps also for amulets. It is quite intelligible that in the lower grades of civilization, where even great capitalists can carry their property on their persons, ornament and currency should be interchangeable. There is no safer place—none where the distinction conferred by wealth can be more effectively displayed—than the owner's person. Hence the frequency with which we find forms of currency which may at the same time serve



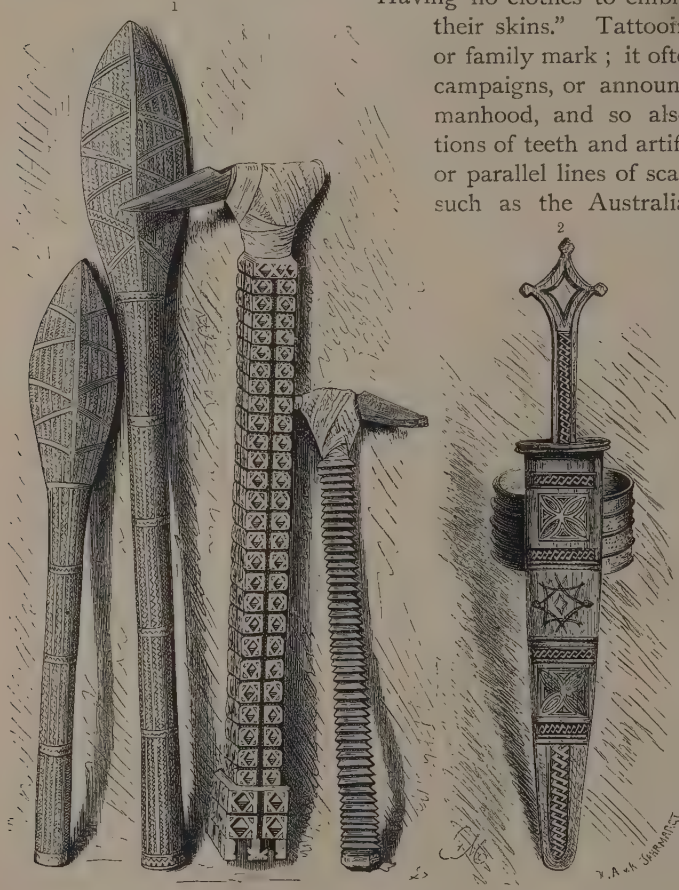
1, 2. Stone lip-plugs; 3, 6, necklaces; 4, armlet, worn by the Jur tribes; 5, armlet; 7 head-dress of the Shulis. (Vienna Ethnographical Museum.)



Irenga arm-ring, with sheath. One-fourth real size. (Vienna Ethnographical Museum.)

for ornament—cowries, *dentalium*, and other shells, cachalots' teeth, iron and copper rings, coins with a hole through them. Silver and gold currencies have grown up in the same way; but among the barbarous races of the older world, only the Americans seem to have appreciated the value of gold. It was left for Europeans to discover the great stores of this metal in Australia, California, and Africa. To this day, in the districts of Famaka and Fadasi, although almost every torrent brings down gold, it plays no part in native ornament or trade.

Lastly, we may reflect how eloquent for a savage is the silent language of bodily mutilation and disfigurement. As Théophile Gautier says: "Having no clothes to embroider, they embroider their skins." Tattooing serves for a tribal or family mark; it often indicates victorious campaigns, or announces a lad's arrival at manhood, and so also do various mutilations of teeth and artificial scars. Radiating or parallel lines of scars on cheek or breast, such as the Australians produce with no other apparent object save that of ornament, denote among the Shillooks, Tibboos, and other Africans, the loss of near kindred. Even if we cannot see in circumcision, or the amputation of a finger, any attempt at personal embellishment, in these and similar practices it is difficult to separate with a hard-and-fast line the motives of decoration, distinction, and fulfilment of a religious or social precept. Doubtless much of the ornamentation which is applied to the body is a mode



1. Paddle-shaped clubs, probably from Fiji; and carved adzes, as carried by chiefs, from the Hervey Islands. (Munich Ethnographical Museum.) 2. Dagger for attaching to the upper arm, from Lagos. (Christy Collection, London.)

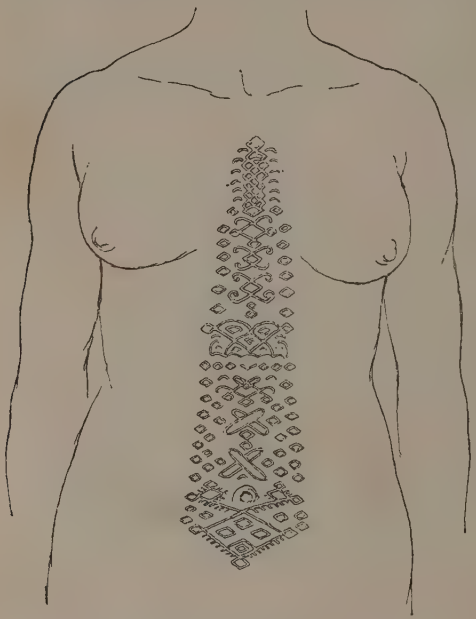
of expressing the primitive artistic impulse upon which special attention is bestowed; and thus the tattooings of the New Zealanders, often the work of years to execute, and that at the cost of much labour and pain, must be reckoned among the most conspicuous achievements of the artistic sense and dexterity of that race. The Indians are less distinguished in this respect, while among the Negroes few devote so much attention to this branch of art as to the arrangement of their hair—a point in which they certainly surpass all races, being materially aided in this task by the stiff character of their wigs.

As in all primitive industries, we meet here, as a characteristic phenomenon, with endless variations on a limited theme. Thus some races take to painting, some to tattooing, some again to hairdressing. Customs affecting the same region

Modes of hairdressing, Lovalé. (After Cameron.)

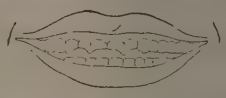
of the body may often indicate relationships. Thus the Batokas knock out their upper front teeth, causing the lower to project and push out the under lip. Their neighbours to the eastward, the Manganyas, wear a plug in their upper lip, often in the lower, and thereby arrive at a similar disfigurement. These luxuriant developments of the impulse for ornament exhibit the innate artistic sense of a race often in an astonishing phase, and it is not without interest to trace it from its crudest beginnings. The articles which savages use for ornament are calculated to show up against their dark skins. White shells, teeth, and such like, produce a very different effect on that background to what they offer on our pale hands or in dark cabinets. Hence we find far and wide painting with red and white—cosmetics were among the objects buried with their dead by the old Egyptians—dressing of the dark hair with white lime and similar artifices. But the highest summit of the art has been attained by the Monbuttus, who, in the great variety of patterns with which they paint their bodies, avoid harsh colours and elementary stripes and dots. The old people alone leave off adorning themselves and let the painting wear out; but it is at this age that the indelible tattooing begins to be valuable.

Among one and the same race, special decorative themes are generally adhered to most rigidly, and varied only within narrow limits. We must, however, beware of the temptation to read too much conscious intention into these manifold ornaments. In face of the tendency of prehistoric research to treat particular themes as the signatures, so to say, of the respective races, it is necessary specially to emphasise the space to be allowed for the play of caprice. It is true that you can always tell a Tongan club by the little human figures which stand out in the mosaic-like carved pattern; but here we have to deal with a limited area of culture, within which a great persistency of tradition can easily be aimed at. But would any one take the cross, which is so natural a motive in matted work, as it appears on the beautifully woven shields of the Nyam-Nyams, for an imitation of the Christian symbol, or ascribe the crescent on Polynesian carved work to the influence of Islam?



West African body-tattooing. (From a drawing by Péchuel-Loesche.)

Among the other advantages enjoyed by the male sex is that of cultivating every kind of adornment to a greater extent, and devoting more time to it. In the lowest groups of savages ornament follows the rule which is almost universal among the higher animals; the male is the more richly adorned. As is well known, civilization has pretty well reversed this relation, and the degree of progress to which a race has attained may to some extent be measured by the amount of the sacrifice which the men are prepared to make for the adornment of their women. Otherwise, in the most civilized communities, men only revert to the custom of adorning themselves when they happen to be soldiers or attendants at court.



West African mode of filing the teeth. (From a drawing by the same.)

A practical result of the tendency to luxury in the midst of destitution is the confinement of trade with the "natural" races to a small list of articles, the number of which is almost entirely limited by the purposes of ornament or pastime and sensual enjoyment. Of trade in the great necessaries of food and clothing there is hardly any. The objects exchanged, things of value and taste, are primarily luxuries. Setting aside the partly civilized inhabitants of the coast, and the European colonies, the important articles of the African trade are beads, brass wire, brass and iron rings, spirits, tobacco. The only articles in a different category which have attained to any importance are cotton goods and firearms.

Finally we may find a place in this section for those implements of the toilet wherewith all those works of art are performed upon which primitive man, in this

respect nowise behind his civilized brother, bases his hope of pleasing and conquering. Let us hear how Schweinfurth describes the dressing case of a Bongo lady: "For pulling out eyelashes and eyebrows they make use of little tweezers. Peculiar to the women of the Bongos are the curious little elliptical knives fitted into a handle at both ends, sharpened on both edges and decorated with tooling in many patterns. These knives the women use for all their domestic operations, especially for peeling tubers, slicing cucumbers and

1. Tortoise-shell combs from Pelew. One half real size. (Kubary Collection, Berlin.)
2. Azandeh or Nyam-Nyam shield. One-tenth real size. (Vienna Ethnographical Museum.)

gourds, and the like. Rings, bells of different kinds, clasps, and buttons, which are stuck into holes bored in their lips and ear lobes; with lancet-shaped hairpins, which seem necessary for parting and dividing their plaits, complete the Bongo lady's dressing-case." A pair of tweezers for thorns, in a case attached to the dagger-sheath, forms part of the outfit in almost all parts of Africa. Many carry a porcupine's bristle or an ivory pin stuck into the hair to keep it smooth. Combs are well known to the Polynesians, the Arctic races, and the Negroes.

While the civilized European regards cleanliness as the best adornment, even the Oriental is very far from giving it a high place. Barbarous races practise it

when it does not cost too much trouble. In certain directions, however, it can become a custom; for example, the negro pays much more attention to keeping his teeth clean than the average European. The horror of ordure is often in truth superstitious, and in that case contributes to keep the neighbourhood of the huts cleanly. Furneaux was astonished to see latrines among the Maoris. But what especially promotes cleanliness is the absence or scantiness of clothing. Dirt as a general rule is principally met with among such races as are compelled by uncertainty of climate or by custom to keep their bodies always covered. A daily change will involve rapid wearing out, and for this reason they usually wear their clothes, as Jenghis Khan prescribed, until they drop off in tatters. In the most intimate family life, however, a reserve prevails among natural races which puts their civilized brethren to shame. Among Negroes, Malays, and Indians, it is a widespread custom that parents and children should not sleep in the same room.

§ 11. HABITATIONS

The first huts—Germs of buildings in wood and stone—Temporary character of most hut architecture—Historical value of permanent building—Classification of the natural races according to their style of building—Shelter as a motive—Pile buildings—Assemblage of habitations—The ethnographic importance of towns—Various descriptions of towns—Ruins of towns and of civilizations.

THE germ of architecture, the first hut, was called into existence by a need which is primitive and universal. No race lives for a continuance in hollow trees, as certain of the Tasmanians did in Cook's time, or as the scattered Bechuanas in the Matabele kingdom. That first hut was no doubt very simple and perishable. Architecture in the real sense, that is building made to last, and subsequently decorated edifices, lie nearer to the present time. In the somewhat vague statement of Laprade, "the birth of architecture, the building of the first temple, marks the beginning of the historical period," the ethnographer will find a somewhat narrow notion of a temple in view of the fetish huts of the Central Africans or the Melanesians; for him the step beyond the most primitive hut-building begins much earlier.

The first germ from which, in later times, the inspiring grandeur of architecture was to unfold itself, lay in the need of shelter. We may mention first the ways in which this need drives men to rely on Nature. We shall have to speak of the almost brute-like habit of living in trees found among many races. The use of pendent branches, which are hastily plaited together and strengthened, as among the half nomad Bushmen, is nearly akin to it. By cutting down branches or saplings, sticking them in the ground in a circle, binding together the upper ends, and roofing this hasty edifice with boughs or skins, is the next step towards simple hut-building as we find it among Fuegians and Hottentots, Gallas and Somali. Hence we are brought by a long series of more permanent and gradually more decorated buildings to the richly ornamented wooden houses of the Papuas and Malays, or the Pelew Islanders, and the stoneless palaces of the Monbuttu or Waganda kings. The kindred germ of stone architecture was given by the habit of dwelling in caves, widely spread in primitive times, and not yet obsolete. It has an advantage in the durability of the material, counterbalanced

by its lesser adaptability to decoration and ornament. But the advantage outweighs the disadvantage, for as soon as an effort is made in the direction of taste, it was easier to satisfy in the matter of symmetry, which is the fundamental condition of all architectural beauty.

How little the hard pressure of necessity can do to call forth a greater activity in satisfying those demands for shelter and food, which are most imperious where the climate is most harsh and the plant and animal world most scanty, is shown by the case of the Fuegians who, incredible as it may sound, build not more, but

Caves of the Bushmen. (After Fritsch.)

less, than more favourably situated races. So, too, the Tasmanians must be indicated as having been the most backward of all Australasians in hut-building. In Australia itself it is surprising to see how it is just in the warmest regions that hut-building has made most progress; while it is most wretched in the coldest parts, where the hut is in fact a protection rather for the fire than for the people. When we find a similar fact recurring elsewhere, as we do in South America and South Africa, it establishes with all the force of an experiment that it is not the schoolmistress need that has most power to compel a progress towards culture, but that it is only in a tranquil development guaranteed by peace and plenty that the higher stages, even in the matter of hut and housebuilding, can be reached.

What is required above all is continuity. Nomadism strikes deeper than we realise into the lives of even agricultural races. The famous art of constructing dwellings rapidly in bee-hive style, that form of hut used by Hottentots and Bechuanas, which pre-supposes access to the flexible half-grown stems of the

mimosa, only shows that the distinction between the hut and the tent is as yet not fully appreciated. These edifices disappear as quickly as they spring up. The most symmetrical and most elegant huts used by Negroes, even though, as on the Upper Nile, their ground-plan, form of roof, proportions, vary from one tribe to another, are often hastily run up of reeds and grass. Nothing but their temporary character prevents the development of a style of art relying on types and creating new works on the basis of the old. The destructive force of Nature comes as additional to the perishable character of the structure. Everywhere in tropical latitudes the flimsy dwellings are subject to speedy decay by reason of boring beetles, devouring ants, tropical storms. Nor do the human inhabitants in any way cleave to the soil; on the contrary, they regulate their mode of life quite in the sense of Nature, with whom "all things are in flux," and, instead of restoring their dwellings, they desert them in order without trouble to get virgin soil for cultivation. Junker found in the Bahr-el-Ghazal country hardly any of the zeribas which Schweinfurth had so precisely indicated. After a very few years what was once a well-ordered settlement displays at most a few posts standing in circles, and weeds sprouting ever afresh from the seeds of what once were cultivated plants.

Tree-dwellings in South India. (After Jagor.)

There is nothing monumental about negro architecture, and for that very reason anything durable is all the more conspicuously significant in that land of nomadic building. The granite of Syene, the black limestone of Persepolis, which have retained even to our days the most delicate sculpture and the smoothest polish, are of high historical significance as trustworthy props and bearers of tradition. They witness to the truth of a remark of Herder's: "No work of art has died in the history of mankind." How great an influence has been produced on us by the fact that those remains, so far removed both in place and time from the modern civilization of the Nile valley, have been handed down to us uninjured? But how much greater was the value of these stony witnesses of the greatness, the deeds, the religion, the knowledge of their nation, for the people who walked beneath them? This hard stone gave as it were a skeleton to tradition, to guard it from premature collapse. In any case the fact of settlement in stone houses, vying in firmness with the solid earth, had a significance very different from that of settlement in huts of bamboo and brushwood.

In any classification of races according to their method of building, the lowest grade will be held by nomadic hunting and fishing peoples of the type of the Fuegians, the Bushmen, the Tasmanians, and many Australians, who inhabit no huts built on a fixed plan or placed regularly together in villages, but put up temporary shelters of brushwood and reeds. The tent-dwelling nomads, whether their tents be of leather like those of the Arabs, or of felt, the Mongol or Sifan *yaourts*, so far as plan goes, are not much superior to those above-mentioned; but the necessity of guarding their herds has made it a characteristic of them all

Fishing village on the Mekong. (From a photograph.)

to be arranged in a circle; and thus has grown up the more regular disposition inside of a fence or boundary wall, with gates. These again suggest those partly agricultural, partly nomadic Negroes who build huts of beehive or conical shape, in the most various stages of perfection. The Negroes of Central Africa who, from Ugogo all across to the Fan and Dualla countries, build rectangular houses with several rooms and ornamented doors, form the transition to the Malays of Madagascar and the Indian Archipelago, and to the races of the Pacific, whose richly-ornamented and often large houses, very various in design, offer the most perfect work found in the way of timber-building among "natural" races. Among them, however, we find at the same time (as on Easter Island) the beginnings of masonry in connection with monumental sculpture. The Polar races live in stone buildings or in huts in which snow takes the place of wood. A zone of stone houses with several stories passes through India, Arabia, and the Berber regions of Africa. Contiguous stone houses for hundreds of families occur among the

Indians of New Mexico and Arizona ; and these bring us to the great monumental buildings of the races who were outside the sphere of Old-world culture, as the Mexicans, Central Americans, and inhabitants of the South American plateaux.

The so-called "Dwarf's House" at Chichen-Itza. (After Charnay.)

Independently of all these variations, special kinds of habitation and building develop themselves from the fundamental idea of shelter. Men were led to found permanent abodes in the water—not that of the insecure and violent sea, but always only in calm inland lakes or rivers with gentle current—at first obviously by the wish to protect themselves from beasts of prey and enemies of their own

species ; but later, and on higher planes of civilization, with the view of avoiding the crush and pressure of great assemblages of human beings in a limited space, as in China with its excessive population, and some parts of Further India. In the former case the favourite method of surrounding oneself with the protecting water was to build on piles and platforms ; in the other, large rafts or condemned barges served for dwellings, whence again pile buildings were evolved, but on a larger scale than in the former stage, which is marked rather by isolation than by crowding. Even in our own days pile-dwellings are numerous ; they are built by most of the races of the Indian Archipelago, by Melanesians, most of the Americans of the North-west, certain tribes in Africa and Central and South America. We can easily convince ourselves, if we please, that the phenomenon is no less natural than frequent. Thus our European pile-dwellings call for no artificial hypotheses as to specific pile-building races, Etruscan warehouses for trade goods, or the like. In later times the idea of protection may often have become superfluous and passed into oblivion, while the custom remained. Nor were piles always necessary for the construction of such dwellings ; many other means were employed to isolate and protect dwellings and stores. We may recall the old Irish *crannoges*, or fenced villages, or our modern cities built on piles—Amsterdam, St. Petersburg, Venice. From the effort to gain the greatest possible security, together with the desire for a more healthy position, arises the practice in vogue among traders settled on foreign shores to take up their abode on ships or hulks, which are moored out in rivers or harbours, and contain at the same time their warehouses. In a smaller measure the same end is served by the post-supported dwellings on dry land, very common among the Malays, and to be found in Africa, especially in universal application to storehouses. Livingstone relates that the Batokas on the Lower Zambesi build their huts on a high framework in the middle of their gardens, in order to protect themselves from wild beasts, especially the spotted hyenas. Tree-dwellings, as of the Battaks in Sumatra, of many Melanesians, of South Indian tribes, come under this head. They are not really a primitive stage of dwelling, comparable to the arboreal residences of the orang-outang, but arise simply from the employment of trees as posts.

House in Central Sumatra. (After Veth.)

The huts which the trees support often belong to the best-made things of their kind.

The effects of the craving for protection reach neither far nor deep, when the essence of it is only isolation; but when it tends to pack men together it gives rise to developments which have a wide and mighty bearing. The great cities which belong to the most marvellous results of civilization stand at the further end of the effects produced by this tendency to unite men and their dwellings about a single point. Nothing will enable us so well to recognise the power of the motive of defence as a glance at the situation of cities. We find fortified villages crowded together on the tops of mountains or on islands, in the bights

Village on a tongue of land, Lake Tanganyika. (After Cameron.)

of rivers or on tongues of land. Since most centres of habitation have been laid out at a time when a thin population was beginning to spread, and the danger of hostile invasions was vividly before their eyes, considerations of defence are often strongly stamped on their situation. We need only set before our minds the way in which nearly all the older towns of Greece and Italy stand on the tops or sides of hills, or remember that nearly all the oldest maritime trading cities are placed on islands. The tendency to pack together may pass into an extreme, as in the case of the Indian dwellings in Colorado, combining the character of caves and castles, which shelter numbers of persons in the narrowest possible space, and often are only accessible by steps in the rock or by ladders.

A third cause to be considered is common interests in labour. These of course increase with the progress of economic division of labour, until they form the principal cause which decides the situation of an inhabited place. Even at primitive stages of culture large populations assemble temporarily in spots where useful things occur in quantity. The Indians of a great part of North America make pilgrimages to the beds of pipestone; and we have mentioned the crowds who go yearly to gather the harvest of the *zizania* swamps in the north-western lakes, and the assemblage from all parts of widely-scattered Australian tribes on

the Barcoo river for the seed-time of the grain-bearing Marsiliaceæ. These are transitory assemblies. But when once the step is taken from a roaming life to a settled one, places of just this kind will be among the first selected ; and if, when life has become settled, the population increases and division of labour comes in, larger habitations will spring up until such spots of the earth as are furnished by Nature with any special wealth will, as the highest stages of civilization are reached, show those unwontedly dense populations—400 and upwards to the square mile—which we meet with in the fertile lowlands of the Nile and Ganges, in the coal and iron districts of Central and Western Europe, or in the goldfields of Australia and California.

The larger isolated aggregations, on the contrary, come into existence at definite points, which have become points where the streams of traffic meet or intersect. The wish for exchange of goods first causes the need for drawing as near as possible ; traffic creates towns. Everywhere that Nature simplifies or intensifies traffic great assemblages of men spring up, whether as cities of the world like London, or market-towns like Nyangwe.

We assume by a kind of instinct a certain connection between cities and higher culture, and not without reason, since it is in the cities that the highest flower of our culture declares itself. But the fact that just this development of cities is so important in China, shows that a certain material culture is independent of the highest intellectual culture, and gives an impressive lesson of the real extent to which cities help to serve that life of trade which is less dependent on culture, nay, even for the most part spring from it. If cities are an organic product of national life, they are not always the result of that race's own force to which they belong. There are towns of international trade, like Singapore, or, in a lesser degree, the Arab and Swahili stations on the coast of Madagascar ; or colonial towns, which are closely akin to these, such as Batavia, Zanzibar, or Mombasa. So mighty is traffic that it bears with it the organisation necessary to it into the midst of an alien nationality ; so that again whole races which have become organs of traffic bear the stamp of town life on their brow. Most of all, indeed, are the desert-dwellers urban races ; for the nature of their place of abode crowds them together around the springs, and also for defence, and forces them to more durable building than would be possible with timber and brushwood. The fact, too, that the oases are widely scattered renders it almost impossible for any assemblage of habitations to become a centre of traffic in the wide-meshed net of the desert roads. The first conquerors of an inhabited country, again, are often compelled to live in towns, independently of traffic ; feeling themselves secure only in close settlements. Then in later times these compulsory towns follow the natural requirements of trade, and change their situation. Premature foundation of towns is a symptom of young colonisations ; in North and Central America we may find ruined cities of quite modern date. In the Chinese region of colonisation on the frontier of nomads and Chinese, along the upper Hoang-ho, numerous ruined cities are characteristic of the zone where semi-civilization comes into contact with semi-savagery.

§ 12. FAMILY AND SOCIAL CUSTOMS

Head and family—Polygamy—Position of women—Female rule—"Mother-right"—Exogamy—Capture of women—Parents and children—Morality—Society—Social inequalities—Slavery—Races in bondage—Distinctive character of property—Extent of the distinction in tropical countries—Property in land—Examples of various conceptions of private property—Civilizing power of ownership—Poverty and labour in uncivilized peoples.

EVERY step towards higher development involves grouping in societies. The *Animal sociale* of Linnæus[1] is justified by history, and the most natural form of society is the Family. It is the only source from which all social and political life can be developed. If there was any union before the family, it was a herd, but not a state. The stability which every political organisation capable of development must needs possess, first comes into existence with the family. With its development the security for economic advantages, which forms the foundation of all higher civilization, goes hand in hand.

The fundamental basis of the family is the union of the sexes in a common home in which the children are brought up. Within the wide limits of this definition we find marriage universal. Where marriage has been supposed to be absent, even among the most promiscuous nomads of the forest and desert, its existence has sooner or later been in every case established. Extraordinary as has been the spread of polygamy, extending even to the possession of thousands of wives, as a rule the establishment of the family begins in the union of one man with one woman. Even elsewhere, one wife remains the first in rank, and her children have, as a rule, the rights of primogeniture.

Marriage is an endeavour to bridle the strongest natural impulse—one which advance in civilization has as yet hardly diminished. The restriction is at all stages and under all circumstances constantly being loosened or broken, and then reimposed in new forms. Thus an enormous variety of shiftings lies between the modern forms of monogamy and those survivals of old forms which are referred to group-marriage. But all are variations of the same problem, how to bind man and woman to a lasting union.

In every great community we find smaller groups of persons who are disqualified or withheld from marriage. Continence as a religious duty holds no very important place, though in all parts of the earth we find celibacy regarded as the highest perfection in military and sacerdotal organisations. But in a far higher degree is the natural development of the family hindered by the unequal number of the sexes. The capture of women often connected with slavery, infanticide, war, and the emigration of the men, bring about an excess of women. From the point of view of the relations prevailing among ourselves, which are based upon an equality of numbers in the two sexes, it is hard to conceive a state of things in which the women are two or three times as many as the men. Yet not only do we find in Uganda, according to Felkin, seven women to every three men, but in the half-civilized Paraguay it was reckoned in 1883, after some years of war, that out of 345,000 inhabitants, two-thirds were women. The consequence is an excess of the female element in the family, which is the most immediate cause of

[1] [And of Aristotle long before him.]

polygamy. A superfluity of men, such as civilization brings with it in new countries peopled by immigrants, is less frequent in the lower grades; we find it where there are slaves, and in great centres of commerce. Plurality of husbands, or polyandry, which was formerly regarded as a specially deep-rooted and ancient form of the family, has by closer observation been shown to be a development from altered or abnormal conditions. The small number of women among the imported labourers in Fiji has caused a true polyandry to grow up, and it has arisen, under similar conditions, among a slave colony of Dinka slaves in Lega land. In Tibet, and among the Nairs in India, one man may belong to several married groups.

Independently of these outgrowths of marriage, in which nevertheless the woman follows the man—while he is her lord, and the lord of her children and her earnings,—we find that form of marriage, equally possible with monogamic or polygamic institutions, in which the man enters the woman's community, and the children belong to her. Here comes in what in one word is called "Mother-right." This takes, as the corner stone of the family and of society, the one certain fact in all relationship—the kinship of children to their mother. When Herodotus found among the Lycians the custom whereby the children took the mother's name, and pedigrees were reckoned in the female line, he thought that that people differed from all others. But we now know that this custom, either practised consciously and completely, or only as a survival, recurs among many races. The child may be so closely attached to the kindred of the mother that in tribal feuds father and son may fight on opposite sides. In all races we find nations among whom the chiefship descends through the mother. It is tempting to see in this a survival from an older form of marriage, perhaps a transition to group-marriage; since this too looks for the only unquestionable certainty of a child's origin in his kinship to his mother, and thus equally ignores the father. It is also certain that where mother-right prevails, so far from any promiscuity of intercourse arising, women who, owing to their kinship to their own group, may only mate with a man belonging to another, stand to him in a much closer relation than do those with whom he is forbidden ever to mate. The husband enters the tribe, even the household, of his wife, and a whole series of customs, in many cases very extraordinary, points to the fact that in spite of the bond of wedlock he is regarded as a stranger there. Tylor has collected statistics indicating that the curious practice whereby the husband avoids and refuses to know the wife's parents, and especially his mother-in-law, appears almost exclusively in the cases where he enters the wife's family. These onerous ordinances, too, are among the most strictly enforced. An Australian indignantly repels a suggestion to utter the name of his mother-in-law. When John Tanner, the naturalized Ojibbeway, was introduced by an Assiniboine friend into his wigwam, he noticed that two old people—his friend's father and mother-in-law—veiled their faces while their son-in-law went by. Each will even avoid the footprints which the other may have made in the sand. The custom of naming the father after the child, as Moffat was called "Mary's father," is also found where the husband has migrated into the family of the wife. It may be explained as an indication that the non-acquaintance continues until such time as the birth of a child has established a connection between himself and the family. The small attention, too, which the father pays to the bringing-up of his offspring, is probably due to a like cause; the children

do not belong to him, but to the mother and her tribe. A survival of the privileged position of the female side appears also in the etiquette prevailing among the Kurnai of Australia, by which the husband has to assign certain special portions of game taken by him to his parents-in-law. We must not, however, look for traces of mother-right in every insignificant custom, such, for example, as the provision of the wedding-breakfast by the bride's family.

A Zulu family. (From a photograph in the possession of Dr. Wangemann.)

The transition from this system to that in which the father is the head of the house, or as it may be called, "father-right," appears to come about spontaneously, in cases where the father acquires property by his own exertions; which then naturally belongs to him. Again, local separation furnishes a point of origin for the extension of the new family. Powell relates that an Indian tribe in which mother-right prevailed, being compelled in a time of dearth to migrate with its women, became in its new situation the originator of a tribe with father-right. In view of the tendency to exempt from the mother's right of bequest land which has been cleared by the father with or without the aid of the children, it must happen that, for example, settlements in a new country must be at the disposal of the father; and besides this, movable property shows the same tendency. Tending the herds especially demands hard labour, and as a natural consequence

the patriarchal system has reached its highest development among pastoral races; so that the introduction of cattle-breeding into the industrial life of mankind may well have played an important part in the extension of this system.

Closely connected with marriage under the influence of mother-right is the remarkable custom, which has lasted to our own time, known as "exogamy." Many tribes forbid their young men to take a wife from among their own body, thus compelling them to marry one of another tribe. This custom assumes so rigid a legal form that many tribes in Africa, Australia, Melanesia, America, have their regular "wife-tribes" out of which they always choose their partners. Exogamy even reaches so high as to the Brahmins of India, and we find it as a superstition among the Chinese; it penetrates so deeply that the very language of a race may be divisible according to male and female descent. Thus L. Adam reports of the Carib language that it is a mixed speech, that of the men being deducible from the Galibi or true Carib, that of the women from the Arawak. Its twofold nature consists in the use by men or women of certain forms and words only when speaking to persons of their own sex; while on the neutral ground the influence of the women's Arawak speech predominates. The division takes a local shape where a village is divided into two exogamous halves, or where two exogamous villages or tribes dwell side by side, which, as they multiply, similarly form a dual society. Over large districts, even in the Malay Archipelago, where foreign influences have made themselves much felt, the tribal organisation comes under this law, the rigour of which extends even beyond marriage, for all intercourse within the prohibited limits is treated as incestuous and punished with death. This holds among the Dieyerie of Australia. The often-quoted exogamous group-marriage of the Mount Gambier tribe, where all intercourse within the two half-tribes, Krokis and Kumites, is strictly forbidden, but allowed so freely between them that the two groups may almost be said to be married to each other, appears to us to be a mere procreative hugger-mugger. Remarkable traces of a state of things which has either vanished or is preserved only in fragments, are visible in the kinship-systems of the most various races. These all occur under monogamic or polygamic forms, but give clear evidence of the previous existence of other forms of marriage; and that not as rare curiosities, but widely extended. Morgan first recognised in the Iroquois a people who by that time had reached the mark of marriage by couples, but showed in their names for the degrees of relationship the traces of an earlier system. The Iroquois at that time called his brothers' children "son" or "daughter," while they called him "father"; but his sisters' children were to him "nephew" and "niece," and he "uncle" to them. This observation led Morgan to establish the rule that the family proceeds from a lower to a higher form in proportion as society develops to a higher stage; but the system of kinship only registers progress after long intervals, and only undergoes fundamental changes when the idea of the family has fundamentally altered. Thus it seemed possible to find in the names traces of an older mode of reckoning kinship of which it might be that nothing else had actually survived. It has been suggested that the kin-names of Hawaii may be referred to a system like that of the Iroquois, but even wider in its employment of the names for child, brother, and sister; since there all children of brothers and sisters are spoken of as the common children of these, and call each other "brother" and "sister." But we are in no way justified in

seeing in this a survival of what Morgan, and after him—not without an ulterior purpose—Marx, Engels, and the rest, have called the "consanguine family," —that is, a family in which the only bar to intercourse was as between relatives belonging to different generations—grandparent, parent, child, etc. The notion of incest is bound up with the very lowest forms of marriage of which we have any knowledge, and the bar has been fixed far further back than in our conception of marriage. Still less does the so-called *Punalua* family—in which brothers and sisters, and, as a probable further consequence, their children, were excluded from marriage—result from this Iroquois kinship-system. In Hawaii this form of marriage existed even in the present century, whereby sisters were the common wives of several husbands (*Punalua*), or brothers the common husbands of several wives. The ancient Britons may well have had a similar form of marriage; but on this subject we have no information to carry us farther. All attempts to prove the existence of absolute promiscuity may be regarded as unsuccessful; Bachofen's researches take us back to group-marriage at farthest. The traces of a community of women, such as surrender taking the form of a religious rite; that curious feast held by the Congo natives at the conclusion of the three days' mourning for the dead, at which the widow yields herself to the mourners, and many similar customs, can indeed be explained as survivals from such a state of things; but it seems more natural to regard them as relapses from the monopoly of women in single or polygamous marriages which is constantly being attempted, but always meets with opposition, especially in regions where the sexual instinct is less restrained. Similar relapses, though in other forms and more concealed from view, are not unknown even under our own code of morals. Questions concerning property and society will make us recur to this subject.

Primogeniture is no more universal than the tracing of descent in the male line. No doubt we find it strongly marked among most races, even to the point of the parents, when old, yielding obedience to the eldest son, while the brothers have to work for him like slaves; but we also find privileges conceded to the youngest, as in the custom of "borough-English," still not wholly extinct in this country. In this we may see a regard for the interests of the mother and the family, who will gain most by the supremacy of the son who is likely to remain longest under their tutelage. "Patria potestas" is, if only as a case of the right of the strongest, very considerable wherever the family tie is not extremely lax. In Africa children allow their fathers to sell them without a murmur. On the other hand, among Negroes the love of parents for children is developed in a beautiful degree, and these races, considered low in the scale, often enjoy a most closely-welded and charming family life under the influence of paternal authority and children's affection.

The modes of contracting marriage offer many traces, persisting to the present day, of a former state of things. A present given in many cases by the founder of a new household to his father-in-law, stamps the contract as a form of purchase, while not excluding the traces of capture. The purchase of a wife is often concluded while she is still a child, nay, occasionally, while she is still unborn. It happens not uncommonly that the lady's inclinations are also considered, but, as a rule, parental dispositions are absolute. The wooer usually expresses his wishes by the presentation of a gift to the parents of the girl he has chosen; and its acceptance or rejection is taken as their decision. Intermediary suitors are

often employed. Marriages "on approval" are also frequently found; in cases where things turn out satisfactorily, the course is, first the offering of presents to the girl, then the building and furnishing of the hut, then the gift to the bride's parents. The nuptials are then performed either by priests, or by the parents, or the grandmothers of the young people; or, in their absence, by any older relations. The ceremony includes symbols of the bride's loss of her freedom, of her regret at leaving her parental home, of the expected joy of motherhood, and so forth; but consists mainly of merriment. In many cases the religious element does not enter, but where it does appear, it is in the form of an invocation of the souls of ancestors, whose abiding interest in the family concerns is everywhere presumed. Blood-relationship is among most races regarded as a bar to marriage; yet the heir often takes over his father's wives. Divorce is in these cases wont to be as easily concluded as marriage, the chief difficulty being the recovery of the purchase-money. Wherever polygamy is most widely extended, the marriage relation is most lax; until we meet with conditions such as the most advanced corruption of civilization does not attain to. It has been said, not unjustly, of the Polynesians, that the great laxity of their family-ties has played an important part in their migration. What Cook said of the father of a New Zealand boy who was about to leave him without hope of return, is true of many: "He would have parted with more emotion from his dog." The slave-trade again has increased the ease with which the bond between husband and wife, parent and child, has so often been loosed; while adoption rends the natural dependence in favour of an unnatural tyrannical law.

The capture of women is no longer practised as the sole means of acquiring wives and founding families; though in the wars of savage races often only the younger women are spared, and these are taken as booty, like Andromache, to the homes of the victors. But stories like that of the Rape of the Sabines, or of the daughters of Shiloh by the Benjamites, declare plainly that a different state of things once existed; and a whole series of curious customs can only be explained by a traditional objection to seeing daughters, sisters, women of the tribe, carried off. So, too, when we find at the present day, whether among Arabs, South Slaves, or others, the bride making a show of yielding to compulsion, against her own desire, or the marriage procession embellished by a fight between the bride's people and those of the bridegroom, culminating in the carrying off of the bride, we have obvious traces of what was once conducted in a different spirit. The less reality there is in the custom, the more capriciously does the symbolism work. In a district of East Melanesia the boys of the village await the bride's relations and shoot harmlessly at them with arrows. Or the sham fight between the bride's and bridegroom's people does not take place till after the wedding feast. Not only has the bridegroom to buy his bride, but she must pay for permission to go in peace. To the same class perhaps belongs the custom prevalent in the Loyalty Islands, whereby the newly-married pair may not see each other in public, nor dwell in the same house, but have to meet secretly.

Contrary to the notion that a comparison of the various forms of marriage will reveal a great development, resembling as it were a pedigree, showing a progressive contraction of the area within which intercourse was permitted, from its original identity with the whole tribe, by the exclusion of first nearer, then more

distant kindred, until monogamy at last was reached; we see in all the forms various attempts to do justice to the hardest of all social problems, one of which, indeed, no perfect solution is practically possible. The breeder's motive for selection, viz. the repression of the weakening effects of in-and-in breeding, by encouraging an invigorating cross-breeding, has unduly influenced this theory of development; races which did not breed cattle must have been far from recognising anything of the kind. We should rather say that we are here in presence of one of those cases of a consistent and refined development of a limited group of ideas, of which we find so many examples in the ethnology of the natural races. Such development as we can perceive with undoubted clearness in marriage is in the growth of sentiment with the growing cultivation of the individual, and the closer union resulting from the multiplication of points of contact between the sexes, which comes with increasing civilization.

In primitive society woman holds a position quite as full of anomalies as her position among the most highly-civilized races, the only difference being that in the former case injustice and ill-treatment appear with less disguise as the natural consequences of her physically weaker powers. Polygamy alone hardly explains her lower position. Even where monogamy is the general rule, as is the case, though not without exceptions, and still less as an ordinance, among Negroes, Malays, Indians, and the northern races, it is usual for the woman to live in a separate part of the house, seldom to eat out of the same dish as the men, and in any case, only after they have finished. Higher civilization, while it has improved woman's position by softening the man's rude instincts, and especially his violence and injustice, has at the same time, by depriving her of the dignity of labour, removed the basis of a possible firmer position in society. Has it not, indeed, by making such a division of labour as to give the more limited, easier, and less honourable forms of it to the woman, and exclude her from warfare, public or private, and sport, put her in an even less favourable position than Nature intended? If we descend the stages of civilization we shall find, as we come to the lower, that woman is physically and intellectually more on a par with man. Might not the question of power, or rather strength, once have stood somewhat differently? At the stages of civilization with which we are here concerned, it was not found difficult to allot a position of authority to the woman. We may recall the influence of the priestesses among the Malays, the frequency with which female sovereigns are found in Africa and America, the female troops of Dahomey, who are stronger than the men and handier with their weapons. Despots have often, like the present king of Siam, formed a bodyguard of women, believing the fidelity of female slaves to be more trustworthy.

Nature has no doubt implanted elements of weakness in the physical organisation of women, which perhaps civilization only tends to develop further; but there can be no question that the fact of her bearing and bringing up the children is a great source of strength which can never fail her. If the children belong to the mother, or if, according to the custom of exogamy, the husband enters the wife's family, the greater influence, based upon present possession and the future hope of the stock, lies on the female side. That does not prevent the hardships of life weighing upon her more than upon the stronger man; but even so it must often happen that, as Arthur Wright says of the Seneca Iroquois, the women are a great power in the clans and elsewhere. On occasions, he adds, they can

even depose a chief, and reduce him to a mere ordinary brave. The manifold forms of female rule, or the double chieftainship, male or female, such as we find in Lunda, and traces of it in Unyoro, point to a higher position of woman at one time.

In regard to sexual morality, comparative observation shows that in all grades of civilization very different conceptions of it obtain, but that these are by no means most relaxed among the poorest and most wretched of natural races; rather in places where there is constant intercourse with the lower classes of civilized nations. Apart from this, however, we find great differences, such as are hardly to be explained by primitive conditions, but are rather bound up with the very various circumstances of national life. In some regions the utmost freedom is allowed between unmarried persons, to the point of its being held creditable to a girl to bear children to her lovers; elsewhere wives are surrendered, freely or for payment, to guests; while some tribes kill a girl who has borne a child out of wedlock. There is no sharper contrast than the rigid jealousy wherewith the Masai guard the purity of their maidens, who go clothed in skins, and the laxity which their easy-going neighbours, the Wakamba, display in regard to their girls, who stroll about without a rag on; but the former are a proud race with strict laws and aristocratic organisation; the latter a complaisant, lazy, scattered subject-race. We often meet with the same contrast; a strong nation keeps its laws on this subject at as high a level as on others, a weak one tends to license. On the other hand, the Masai attach no importance to chastity in married women. The fact is that the influence of moral ideas upon races at this stage is very small, and that such morality as there is exists less in compliance with any moral feeling, than as an obstacle to the infringement of private rights. Adultery is universally regarded as an attack upon rights acquired by the purchase of the wife; and thus the action of the man who makes a temporary surrender of his wife to a guest, does not necessarily shock morality. It remains to inquire how the growth of this custom bears upon the position of women in a community with "mother-right." No doubt the influence of the women would be thrown against it, as to this influence is due the disfavour with which public opinion among the North American Indians views facility of divorce. In general the less civilized societies allow freer play to the sexual instinct than do the higher; and accordingly among them we find less violence done to ideas of law or morality. As the bonds which unite man and wife are drawn closer a change takes place. It is at this point that professional harlotry appears, as a means of averting forms of profligacy which might endanger family ties. In the form in which we find it among the Nyam-Nyams, it may no doubt be regarded as an indication of higher social development; but at the same time it lowers that society materially in moral worth. Indeed, in disregard of moral obligation, the most cultivated society is on a level with the natural races. The conditions which lead to national decay often present a striking parallel. Society in Tahiti, as Cook and Forster found it, was thoroughly corrupt and on the high road to decay; it was doomed to perish neither more nor less than that of Rome under Heliogabalus, or that of Paris before the Revolution. Conversely the condition of the Zulu nation under Dingaan and Chaka was one of rude and youthful health. Certain features of family life which we are apt to consider as restricted to the richer growth of the affections in civilized life may be specially noticed. The mourning

of a widow for her husband, or of parents for children, is expressed with a vehemence which must partly suggest superstitious ideas, but in any case is a great act of sacrifice on the part of the living for the sake of the dead. We may recall how Australian women carry about the corpse, or some bones, of their dead children on all their marches, or how Melanesian women wear the mummied skull of their departed husbands; not to mention the widespread custom under which widows and slaves follow their husband or lord to the grave.

Motherly love is so natural a sentiment that the modes of expressing it need no authentication; but we often come across instances of tenderness on the father's part towards his offspring. No doubt there are many cases of cruelty, but these are exceptions. All who have gone deeply into the question agree in praising the peaceful and kindly way in which those of one household live together among uncorrupted natural races, doubly striking by contrast with the dark practices and disregard of human life with which it often co-exists. Solomon's maxim that he who loves his child chastens him betimes, finds no observance among natural races; rather is it the children who tyrannise over the adult. But even they seldom quarrel or fight among themselves. Nansen has depicted the great good-nature which prevails among the Eskimos, and is inclined to refer the repose and peacefulness of family life mainly to the intimate association customary between mother and children. The educational effect of this closely-knit fellowship upon its members has often been under-estimated. But among many natural races life moves more securely in fixed lines than it does among the most highly-cultured. The respect for elders, the obedience to those in authority, the willing subordination, the apathetic calm, which preserves its supremacy by force not of intellect but of habit, in face of the most unexpected occurrences, often impress Europeans. The cool self-contained Redskin of the Indian tales is a product of this closely-knitted society.

The word Family had, even in its original Latin use, the meaning of household, the slaves being included in it; and thus signified a society. It has a yet wider import among races in very various stages of civilization. By the comprehension of kinsfolk of several generations and inclusion of strangers in the position of slaves, it broadens out into an important element of society. Among the Slavonic peoples we find house-comradeship, *Zadruga* or *Bradstro*, "brotherhood," embracing several generations of descendants from one progenitor, and their wives, in a community of goods and labour under one head, who need not always be the eldest. Traces of the same appear among the old Germans and the Celts; we find them in India, in the Caucasus, among the Kabyles, and many other races of Africa and Oceania. Where we know nothing of their internal organisation, the great house with its numerous apartments for single groups—particularly the "long-house" (see woodcut on p. 127) indicates their existence. Here then we are in sight of the family and of society. The family holds its members together with a bond closer than that of marriage, and forms with them an organisation which is one of the great and permanent elements of society. This effort is most conspicuous in the societies where mother-right and exogamy obtain; in which the sharp division on the basis of blood-relationship divides the whole stock into two halves, which are at once family and society. They divide the property, individual property being unknown; and this, apart from kinship, holds the society together. For political purposes some family stocks unite in

groups, which may be compared with the old Greek Phratriæ ; several of such groups form the highest political unit, which we call simply the tribe.

Slavery and serfdom soon bring about a further gradation. The oldest occasion for slavery was the compulsory entry into the society of foreigners, who in most cases would be prisoners of war. The custom of enslaving such prisoners when the captors do not wish to kill them is to this day very widespread, and indeed has been abandoned only by the most highly civilized nations. The Masai in East Africa, a shepherd tribe, who subsist upon herds of a fixed size, and have neither labour nor provisions to spare for slaves, kill their prisoners ; their neighbours, the agricultural and trading Wakamba, being able to find a use for slaves, do not kill them ; while the Wanyamwesi, a third people of that region, having, through their close connection with the Arabs of the coast, a good market for slaves, wage wars on purpose to acquire them. Here are three situations of typical significance. The impulse to level downwards which exists in primitive societies shows nowhere more strongly than in the position of relative freedom which the slaves enjoy. If there is no work for male slaves, females are always wanted, and their issue forms a yet lower social grade. Slaves are also bought for human sacrifices, and in Central Africa the death of a chief creates a brisk demand. Wherever the status of slave is recognised, as it is among all pagan nations, it offers a welcome means of expiation ; the last sacrifice which the creditor can claim from his debtor, the plaintiff from the defendant, is the surrender of personal freedom. A curious exception is found among the Ewe people, where the insolvent debtor incurs the penalty of death. But between the positions of slavery for debt and freedom as enjoyed by the masters, lies the dependent position of those whom poverty has reduced to the verge of slavery though nominally free. To these applies the maxim that the final abolition of slavery is owing to the creation, by means of labour, of movable value, that is, capital, and thus that capital and freedom are sisters.

There is a great distinction between slavery as a national institution and as a means of preparing goods for trade. If Arabs and other slave-holders treat their slaves well, the reason is to be found in the participation of both slave and master in the general indolence. So long as no great differences of rank from the point of view of culture exist, not much demand will be made upon the slave's labour ; but as society progresses and wants increase his lot becomes harder, and it is in no way ameliorated by humanising progress generally. The interval which separates master and slave increases in proportion to the desire of gain ; so that, as Livingstone says, no improvement in the slave's position can be expected, even if the slave-holder does not return to or remain in barbarism. If we look at Africa, we see that among all merchandise slaves and women stand in the closest relation to the requirements of the negro. Their sphere is a large one ; for all that does not concern trade, fighting, or hunting, is the business of the women and slaves. These form the favourite merchandise, the most important standard of property, the best investment for capital. Above all they are the articles easiest to provide in exchange for goods in request—at one time, indeed, the only medium of exchange beside ivory that Africa possessed.

When men are a form of capital, their tendency is, like other capital, to accumulate; for the desire of owning slaves is just as insatiable as the craving for property and wealth in any other form. Therein lies the greatest danger of this institution.

Excessive slavery is one of the causes which destroy states; it was so in Rome of old, it is so in Africa and parts of America to-day. It splits up the nation, of which an ever-increasing proportion falls into slavery; it brings on war, devastation, tyranny, human sacrifices, cannibalism. It has been alleged as an advantage possessed by the powerful conquering nation of the Fans in West Africa, that they keep no slaves to weaken their warlike force. The last result is the depopulating and enfeebling of wide areas. If we may assume, with Father Bauer, that before the conclusion of Sir Bartle Frere's treaty in 1873, 65,000 slaves were annually imported into Zanzibar, this means, allowing for those who escaped or were left behind on the way, that some 100,000 were torn from their homes in the same period.

Nearly allied to slaves are those despised and degraded portions of the population, who live as a sharply-separated and deep-lying stratum, under a conquering race. Almost every race of Asia or Africa which has made any progress towards higher development embraces some such, not always differing ethnologically. For that very reason, however, the social difference is all the more strictly maintained, and often enough leads to further divisions among the lower classes themselves. Thus in some parts of Southern Arabia four, in others two, classes of Pariahs are distinguished; some of them degraded by birth, others through following unclean trades. The caste divisions of India show the same distinctions, for in the lowest castes we equally find some degraded by birth, some by occupation. Both causes meet in our gipsies, in the Yetas of Japan, and others; and it is at once interesting and melancholy to see how in North America numerous remains of the Indian population have sunk to a like level. Here the cause of the degradation was the invasion by a foreign race. A particular form of this inequality is the subjection of whole races to a conquering plundering horde. In some parts of the Sahara the Arabs and Tibboos look upon certain oases and their inhabitants as their private property. They turn up at harvest time to take their tribute, that is to plunder and rob; and in the interval leave their subjects to misery and the task of planting for their benefit. In course of time an assimilation may result from this gradation, though the family regarded as a kin-group seeks to maintain an attitude of reserve and opposition to this, by objection to misalliances. But it may also, by the introduction of economical causes, and local dispersion, lead to a sharp and permanent separation, till we find the hunters of the Central African forests, the so-called Pygmies, appearing as a peculiar social race beside their agricultural masters and protectors.

The tribal membership becomes connected with the realm of the unseen by means of special stock-symbols—known as *Totems* among the American Indians, *Atuas* among the Polynesians—which have been promoted to the position of tutelary spirits. Among the Samoan stocks we find Atuas using the shovel, Aanas the lance, Latuamasangas the whisk, Mononos the fishing-net, as imparted by the god Pili. More especially are animals, preferably reptiles, fish, and birds, sacred to the gods; and each member of a stock bears the emblem tattooed on his person, not only with a view to his recognition and classification, but as an amulet and an object of reverence. Among Indians and Australians we also find the influence of the totems in proper names. G. Forster called attention long ago to the fact that among the Polynesians personal names are often taken from animals, and compared this with a similar custom among the North American Indians. A

Tahitian chief was called Otu, the heron; a Marquesan, Honu, the tortoise. These are almost certainly clan-names, such as we find also among African tribes, Bechuanas, Ashantees, etc. The attitude adopted towards the stock-symbol is very various; sometimes it is an object of dread, sometimes of honour and protection. Among some stocks it is a capital offence to injure the original of the symbol; while in Aurora (Banks Island) a member of the *Veve*, whose cognisance is the cuttle-fish, so far from objecting to eat it, thinks the capture of it particularly lucky. Similar totem-stocks in different tribes lend each other mutual assistance, and thus the system affords a ground for close alliances between distant tribes.

Secret societies also ramify through the community, creating a division into adepts and uninitiated. They have a natural tendency to appear in communities which lack any great public motive for a hierarchy of ranks. They draw artificial boundaries, wear masks of which they alone understand the meaning, surround themselves with religious forms, take control of important functions, such as the initiation of young persons arriving at maturity, or the exaction of penalties for law-breaking, reminding us (and in this latter respect both in their nature and their operations) of the German Vehmegericht. Part of the duty of these secret societies and other bodies consists in the maintenance of traditions. If there is no other organisation for this purpose, their members are systematically instructed in the subject.

No race is actually communistic; but there is so much communism in the institutions of savage races, that it has often appeared more important to combat this than to introduce Christianity. Missionaries have, no doubt, been too ready to find in communism, which does not require a man to put all his strength into his work, the ground of various undesirable characteristics, as in Samoa of the tendency to intrigue which enlivens the native indolence. We shall come across institutions which are deliberately designed to prevent the undue amassing of capital. In Polynesia the effect of these has been decidedly good in rendering difficult the admission, with mischievous rapidity, of European goods. Property shows in its relations a natural analogy with family no less than with social institutions; thus as we find remains of group-marriage beside monogamy, so we find traces of common ownership side by side with individual ownership. When a member of a family community, which unites its forces to till the common land and shares the produce, brings a piece of ground under cultivation, this becomes his own private property with right of bequest. A boat is common property, tackle or fish-hooks personal and private. Especially among nomad, and therefore thinly-scattered, races the notion of private property is unequally developed in different directions. The first thing that makes a European, among the pastoral races of Africa or the hunting tribes of North America, feel that he has left the constraints of civilization behind him, is the way in which rights of property are in some cases neglected. They stick to their herds to the point of miserliness, but insist upon property in land only so far as they want it for pasture. Many peoples respect property in locked chests, but hold what is lying about to be as free as air. If my team is tired, I unyoke where I will; I let my cattle graze wherever I think I have found grass for them. I cook my meal with the nearest wood, asking no man's leave; and no man looks upon it as an infringement of his rights, or an injury to his property. If I like the place where

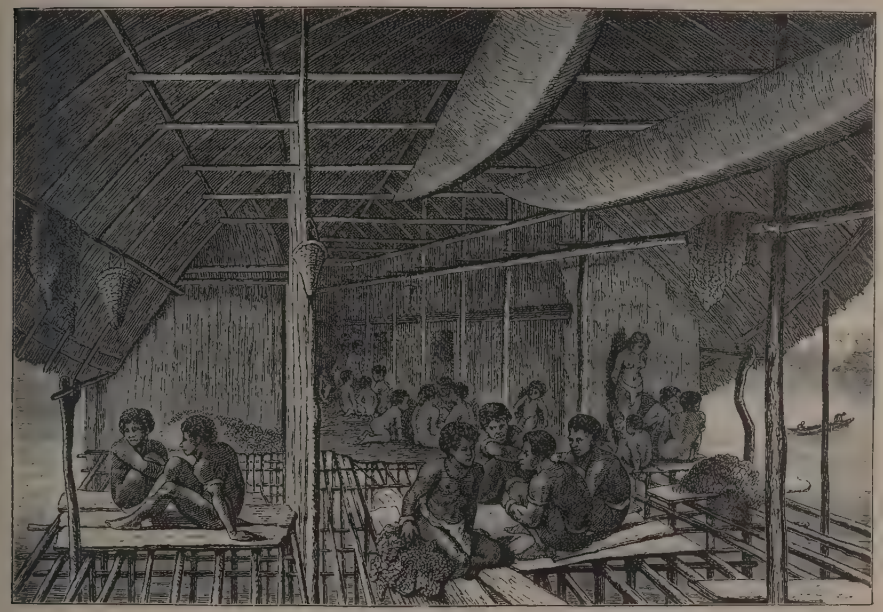
I have halted, or find anything to attract me, such as a copious spring, good pasture-land, or a bit of fertile garden-ground, I can stay there as long as I please, and build myself as big a house as I like. But in any case, if I settle in a particular spot, I must allow others to find the spring copious and the pasturage abundant, and to come there with their herds; and I must come to an understanding with them about the use of it. The Hereros of Damaraland, according to Büttner, have a way, in spite of their communism, of making an unpopular newcomer dislike his quarters by the simple artifice of driving all their flocks and herds into the neighbourhood of his residence. As soon as he has had enough of the damage and devastation which is thus caused, he clears out. The exact contrary is seen in the thickly-peopled region of the Upper Nile, where lakes and ponds, which yield fish and lotus-seeds (almost the sole sustenance of these fishing-people) in profusion, are respected as valuable property, just as are cornfields and vineyards in Europe. The Indian buffalo-hunters of the prairies confine themselves to settled natural boundaries. To the present day the Bechuanas pay toll to the Bushmen on the game which they take, under the plea that the latter were the original owners of the hunting-grounds. The Hereros, of whose half-developed proprietary instinct we have just given an example, carefully avoid any formal surrender of their property to strangers; a full renunciation of the use of their land is inconceivable to them. From the idea of tribal possession arises the notion common in Africa that the tribal chief is the sole owner of the soil, and accordingly the members of the tribe pay such a tax to him for the use of it as may be agreed upon.

The Spaniards of the sixteenth century tell us that no Indian had any free disposal of land, but only with the assent of his tribe. In Oceania the transition from one form of ownership to the other seems to be taking place under our eyes, and, just as happened with the advance of white settlers on Indian soil, upon the basis of labour done in clearing and cultivation. Hunting leads to tribal ownership only; and even the Australians and Eskimo, distributed in the proportion of one to 2000 square miles or so, lay claim to certain tracts of land on behalf of the family or tribe, and regard as an enemy any one who enters or uses these territories without leave. The thinness of population usually found when we come down to the lower stages, will for the most part allow of abundant elbow-room; but it is obvious that a family subsisting by the chase wants more soil than one of agriculturists, and equally so that pastoral nomads demand broader areas than settled cattle-breeders. These contrasts have prevailed at all times and in all countries; and when we come to the races of the steppe, we shall see that important historical consequences follow upon this demand for land. The hereditary dislike of the Indians towards the partitioning of their lands into individual properties, as well as towards the sale of superfluous territory, has contributed much to the difficulties of their position in regard to the white man.

The effect of labour in creating property does not stop with the fencing-in of a forest clearing. According as labour attaches itself to the soil, or only passes lightly over it, its results differ fundamentally. Hunting, fishing, nomad pastoral life, create for the most part a mere transitory possession, which takes no pains to store or spare the source whence it draws. In agriculture, on the contrary, there is a constant strengthening and deepening, which acts not least powerfully through the other branches of human activity which it keeps steadily going. All higher

development of human powers rests upon this steady labour and the storage of its fruits.

It is just in the lowest stages of civilization that the amassing of wealth is a matter of the greatest importance, for without wealth there is no leisure, and without leisure no ennobling of the form of life, no intellectual progress. It is not till production materially and permanently outstrips consumption that there can be any superabundance of property. This, according to the laws of political economy, tends to increase, and allow an intelligent class to come into existence. An absolutely poor race develops no culture. But under the protection of civilization



Interior of a house in Korido, New Guinea. (After Raffray.)

more men will be born and grow up than the soil affords room for. The faster this disproportion increases, the greater will be the gap between Haves and Havenots, rich and poor. In hot countries, where man requires less nourishment, and production is at the same time easier than in cold regions, the population will multiply more quickly. Men become many, work scarce, therefore wages will be abnormally small, life poverty-stricken, misery great. In the cooler zones men want stronger food, while the land produces less of it, and thus maintains fewer persons; the individual has to work harder, with the result that more is done and wages are higher. The relations between harder labour and higher wages is calculated to narrow the distinction between labourers and owners; while, on the contrary, the indolence of the dweller in the tropics increases this distinction, when it is once established, to an enormous degree. In European countries we see advantages of soil and climate fully compensated by the excellent disposition of men who have to work, whose activity guarantees the progress of civilization more securely than natural wealth could do. Natural forces, with all their

grandeur, are essentially limited and stationary; the intellectual force of man is inexhaustible. The best soil is worked out at last, but into the place of an exhausted generation of mankind there is always a new one ready to step, full of youthful vigour. Resting on this basis, civilization is always most capable of development among the dwellers in the temperate zones. But this force had to be developed in slow, steady labour; and the development of civilization is before all things a progressive training of every man to work.

Undoubtedly every man must labour in order to live; but if he likes to live in misery, he need not labour much. The total sum of labour performed by the savage is often not less than that performed by the civilized man; but he does it by fits and starts as the humour takes him, and not in a regular fashion. The life of the Bushman is an alternation of hunting expeditions, on which he often pursues the herds of wild animals for days together with extreme toil, and of gorging on the game he has taken, ending in slothful repletion, until hunger

Ashantee drinking cups of human skulls. (British Museum.)

forces him to new exertions. Regular work at high pressure is what the savage abhors; hence comes that trait of obstinate apathy in his countenance which is an infallible means of distinguishing the spurious from the genuine Indian. For the same reason he hates to learn a handicraft. The Negro's passion for trade, well illustrated by the fact that in Sierra Leone almost every fifth person is a shopkeeper, springs to a great extent from this distaste.

Cannibalism, which is found in every quarter of the earth, and was once more widely spread than now—for even Europe contains prehistoric remains and traditions pointing to its prevalence—is not peculiar to the lowest stages of civilization, nor yet a phenomenon due to a single cause. Peoples like the Monbuttus, the Battaks, the Maoris are among the highest of the races to which they belong. But they are well off for men, and have not risen high enough to make a good use of their superfluous population by increasing their economic production. Human life is held cheap among them. Now cannibalism presumes men for eating; and therefore we find it either where the population is dense, or where a people has the power to get plenty of slaves. Among the Bangalas there are more slaves than are wanted for the labour, so that meat is abundant. Another cause is the sharp separation between one race and another, which causes strangers to be regarded as enemies, and allows any use to be made of them, even that of supplying nourishment. Within an exclusive family-stock or in a group consisting of such stocks, cannibalism would have seemed as inconceivable

as incest; so that if the practice has in recent years infected islands of the Solomon group, it is a fact of the same class as the relaxation of social order which has spread over the same region from a similar direction. Since the introducers of both innovations are the Polynesians, we can hardly doubt that there is a deep-lying connection between them; and similarly we may account for the uneven, disconnected spread of cannibalism, which was found to exist even before the rapidly increased opposition to it caused by Christian and Mussulman influence. Further motives are revenge, which delights to eat its foe; and envy, which hopes by so doing to acquire his more desirable characteristics. To people whose loose style of building makes prisons untrustworthy, the idea of imprisonment for life does not readily occur, so that capital punishment flourishes. Besides these reasons, cannibalism is closely involved in the whole network of cannibal customs; embracing first human sacrifice, then the employment of portions of the human frame in the ritual of consecrations and witchcraft, and lastly the preservation and use of human remains, skulls for drinking-cups, bones for daggers, teeth for necklaces. This playing with human flesh and bones would be the first step to overcoming a natural disgust. When a chief in the Society Islands swallowed a human eye on a festive occasion, cannibalism was not entirely at an end in those regions. We cannot always safely infer cannibalism from the names of races, as these were frequently given by way of insult. The indulgence in the practice from necessity, which is not unknown among Europeans, is quite intelligible among races which, like many Australian and Arctic tribes, suffer every year or two, or continuously, from famine; and need only be noticed as contributing to its maintenance and extension. For where it has once got a footing, its attraction increases, till we find races among whom human flesh is an article of trade, and funerals are almost unknown.

Human bone in the fork of a branch; a cannibal memento from Fiji. (Leipzig Museum of Ethnology.)

§ 13. THE STATE

All races live in some kind of civil union—Development of states—Farmers and shepherds as founders of states—Distinctive marks of the primitive foundations—Cause of arbitrary power—Power of the chiefs—War—Causes of its frequency—Ruinous effects of a permanent state of war—Universal mistrust—Rarity of alliances—Sham wars—Frontiers—Loose cohesion of primitive states.

No race is without political organisation, even though it be so lax as among the Bushmen, whose little bands united for hunting or plunder are occasionally without leaders; or as we find among other degraded or scattered tribes, who are often held together only by superstition and want. What sociologists call individualism has never been found anywhere in the world as a feature in any race. When ancient races fall to pieces new ones quickly form themselves out of the fragments.

This process is constantly going on. "Each individual stock," says Lichtenstein, "is in some measure only a transitory phenomenon. It will in course of time be swallowed up by one more powerful, or if more fortunate will split up into several smaller hordes which go off in different directions, and, after a few generations, know no more of each other." These political mutations have always the character of a re-crystallisation, not of a shapeless breaking up. It is only seldom that the organism is of long duration. One of the marks of the civilized man is that he accustoms himself to the pressure of the laws in the fulfilling of which he is himself practically interested. But if a comparatively well-ordered constitution has been founded among negroes, another community is sure soon to make its appearance on the frontier composed of persons belonging to the same stock who are subject to no ordinances, and these lawless outcasts often obtain through their freedom from every legal restraint and every regard for tribal relations, even through the consideration which attracts to them all the boldest and neediest men from neighbouring tribes, a force which is capable of converting the robber tribe into a conquering, state-founding, and ruling people. Plunder and conquest pass easily into one another. In all countries of which we know the history, predatory tribes have played an important part.

Zulu chief in full war-dress. (From a photograph in the possession of Dr. Wangemann.)

Most of what we know of the history of the natural races is the history of their wars. The first importation of firearms, which permitted unimportant powers to rise rapidly, marks the most sharply-defined epoch in the history of all negro states. What Wissmann says about the Kioko, "with them came firearms and therewith the formation of powerful kingdoms," is true of all. Is not this constant fighting the primitive condition of man in its lowest manifestation? To this it may be answered that hitherto our own peace has never been anything

but armed, but among us serious outbreaks of the warlike impulse are interruptions in longer intervals of rest which are enjoined by the conditions of civilization, while among the races of which we are speaking, a condition like our mediæval 'club law" is very often permanent. Yet even so it must be pointed out that among barbarians also there are peaceful races and peace-loving rulers. Let us not forget that the bloodiest and most ruinous wars waged by the natural races have been those which they have carried on not among themselves but with Europeans, and that nothing has kindled violence and cruelty among them in such a high degree as has the slave trade, instigated by the avarice of more highly civilized strangers, with its horrible consequence of slave-hunting. When the most charitably just of all men who have criticised the natural races, the peaceable David Livingstone, could write in his last journal these words: "The principle of Peace at any Price leads to loss of dignity and injustice; the fighting spirit is one of the necessities of life. When men have little or none of it they are exposed to unworthy treatment and injuries,"—we can see that the inevitableness of fighting between men is a great and obtrusive fact.

But this state of war does not exclude civil ordinances, rather it evokes them. It is no longer war of all against all, but it rather represents a phase in the evolution of the national life when it has already been long in process of forming a state. The most important step from savagery to culture is the emancipation of the individual man from complete or temporary segregation or isolation. All that co-operates in the creation of societies as distinct from families was of the very greatest importance in the earliest stages of the evolution of culture, and here the struggle with Nature, in the widest sense, afforded the most important incitements. The acquisition of food might in the first instance give rise to association in joint hunting and still more in joint fishing. Not the least advantage of the latter is the disciplining of the crews. In the larger fishing boats a leader has to be selected who must be implicitly obeyed, since all success depends upon obedience. Governing the ship paves the way to ruling the state. In the life of a race like that of the Solomon Islanders, usually reckoned complete savages, sea-faring is undoubtedly the only element which can concentrate their forces. The agriculturist living isolated will certainly never feel an impulse making so strongly for union; yet he too has motives for combination, he owns property, and in this property inheres a capital for his labour. Since this labour does not need to be again executed by the inheritors of this property, there follows of itself the continuity of ownership and therewith the importance of blood relationship. Secondly, we find bound up with agriculture the tendency to dense population. Next, as this population draws closer and marks its boundaries, it, like every multitude of men who live on the same spot of earth, acquires common interests, and diminutive agricultural states spring up. Among shepherds and nomads the formation of states progresses more quickly, just in proportion as the need for combination is more active and includes wider spaces. This indeed lies in the nature of their occupation. Thus while the family is in this case of greater importance than in that first mentioned, the possibility of denser population is, on the other hand, excluded. But here the property requires stronger defence, and this is guaranteed by concentration, in the first place of the family. From an economic point of view it is more reasonable for many to live by one great herd than for the herd to be much subdivided. A herd is easily scattered, and requires strength to keep

it together. It is therefore no chance result that the family nowhere attains to such political importance as among nomad races. Here the patriarchal element in the formation of tribes and states is most decidedly marked; in a hunter-state the strongest is the centre of power, in a shepherd-state the eldest.

We are apt to regard despotism as a lower form of development in comparison with the constitutional state, and attribute to it accordingly a high antiquity. It used formerly to be thought that beginnings of political life might be seen shaping

The Basuto chief Secocoeni with his court. (From a photograph in the possession of Dr. Wangemann.)

themselves in the forms of it. But this is contradicted at the very outset by the fact that despotism stands in opposition to the tribal or patriarchal origin from which these states have grown. The family stock has of course a leader, usually the eldest; but apart from warfare his power is almost nil, and to over-estimate it is one of the most frequent sources of political mistakes made by white men. The chief's nearest relations in point of fact do not stand far enough below him to be mingled indiscriminately in the mass of the population over which he rules. Thus we find them already striving to give a more oligarchical character to the government. The so-called court of African or ancient American princes is doubtless the council which surrounds them on public occasions. Arbitrary rule, though we find no doubt traces of it everywhere in the lower grades, even when the form of government is republican, has its basis not in the strength of the state or the

chief, but in the moral weakness of the individual, who submits almost without resistance to the domineering power. In spite of individual tyranny there is a vein of democracy running through all the political institutions of the "natural" races. Nor could it well be otherwise in a society which was built up upon the *gens*, kindred in blood, communistic, under the system of "mother-right." But herein lay no doubt an obstacle to progress.

The power of the sovereign is greatly strengthened by alliance with the priesthood. A tendency to theocracy is incidental to all constitutions, and very often the importance of the priest surpasses that of the ruler in the person of the chief. The weak chiefs of Melanesia, in order not to be quite powerless, apply the mystic Duk-Duk system to their own purposes; while in Africa it is among the functions of the chief to make atonement for his people by magic arts, when they have incurred the wrath of higher Powers, and to obtain for them by prayers or charms advantages of all kinds. This, however, does not prevent the influence of the chief from being overshadowed by that of a priest who happens to be in possession of some great fetish. Conversion to Christianity has almost always destroyed the power of the native chiefs, unless they have contrived to take the people with them. But the religious sentiment is the one thing that has maintained respect for a chief's children, even when they have become slaves.

A Dakota chief. (From a photograph.)

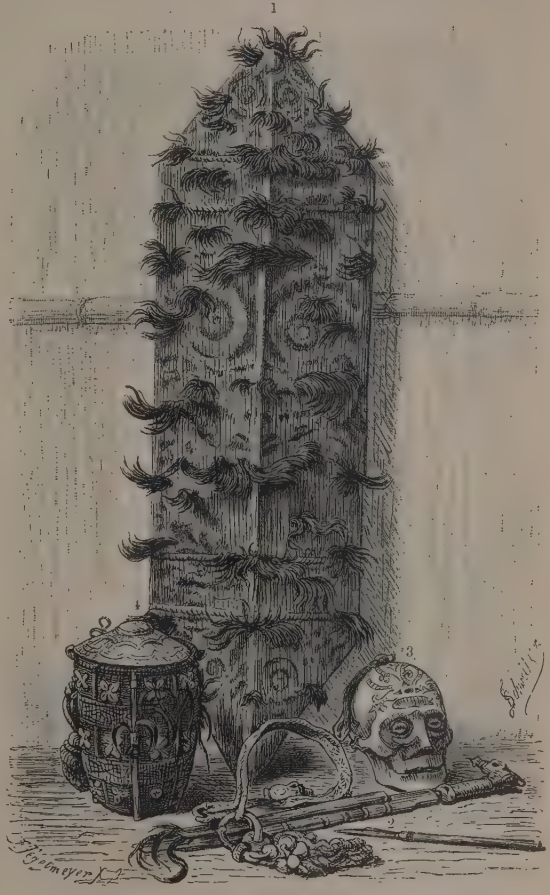
The power of the chief is further heightened when the monopoly of trade is combined with his magic powers. Since he is the intermediary of trade, he gets into his own hands everything coveted by his subjects, and becomes the bestower of good gifts, the fulfiller of the most cherished wishes. This system finds its

highest development in Africa, where the most wealthy and liberal chief is reckoned the best. In it lies the secure source of great power and often of beneficial results. For at this point we must not overlook the fact that one of the most conspicuous incitements to progress, or, let us say more cautiously, to changes in the amount of culture which a race possesses, is to be sought in the will of prominent individuals. We also find chiefs, however, whose power is firmly based upon superior knowledge or skill. The Manyema chief Moenekuss, so attractively depicted by Livingstone, was keen about having his son taught blacksmithing, and the Namaqua chief, Lamert, was the most efficient smith among his tribe. But of course it is in the art of war that accomplishment is most valued in a chief. In giving judgment, he needs no great abundance of Solomonian wisdom, since in all more serious accusations the culprit is ascertained by means of magic, and in this duty too the popular council generally co-operates. Meanwhile whatever the chief's position may be, it is never comparable with the power conferred by the wealth of culture existing in a European people; and it were to be wished that descriptive travellers would employ such terms as "king," "palace," and the like with more discretion. It is only among the war-chiefs that regal parade is customary; the others are often scarcely distinguished from their people.

Every race has some kind of legal system; among most of the "natural" races, indeed, this fluctuates between that under which the injured person takes the law into his own hands, and that of money-atonement for the offence. There is no question of the majesty of the law; all that is thought of is the indemnification of the person who has suffered damage. In Malayan law, for example, the former course may be taken with a culprit caught *in flagrante delicto* even to the point of killing a thief; but in any other case redemption, that is a money penalty, is enjoined; and similarly among the negro races. Among lower as well as higher races violence has a very free play, and tends to limit its sphere as among individuals according to the resistance with which it meets. Blood-feuds in various degrees are to be found among all barbarous races. In the case of Polynesians and Melanesians they reach a fearful pitch. Cook tells us that the New Zealanders appeared to him to live in constant mutual dread of attack, and that there were very few tribes who did not conceive themselves to have suffered some injury at the hands of another tribe and meditate revenge for it.

The wars of "natural" races are often far less bloody than those waged among ourselves, frequently degenerating into mere caricatures of warlike operations. Still the loss of life caused by them must not be under-estimated, since they last for a long time, and the countries inhabited by "natural" races can in any case show only small population. In the case of Fiji, Mr. Williams estimates the yearly loss of human lives in the period of barbarism at 1500 to 2000, "not including the widows who were strangled as soon as the death of their husbands was reported." These figures are quite sufficient to have contributed materially to the decrease of the population. Firearms have diminished war, while increasing the losses. But with this continual war, guerilla war as it might be termed, are associated those catastrophes resulting from raids, in which great destruction of human life accompanies the outbreaks of warlike passion. The final aim of a serious war among the natural races is not the defeat, but the extermination of the adversary; if the men cannot be reached, the attack is made upon women

and children, especially where there is a superstitious passion for the collection of human skulls, as among the head-hunting Dyaks of Borneo. Of south-east Africa, Harris says: "Whole tribes have been drawn root and branch from their dwelling-places, to disappear from the earth, or to wander with varying fortunes over illimitable tracts, driven by the inexorable arm of hunger. Therefore for hundreds of miles no trace of native industry meets our eyes, nor does any human habitation; never-ending wars present the picture of one uninhabited wilderness." Rapine is associated with murder to produce a misery which civilized races can hardly realise. But the culmination of this devastating power is reached when more highly endowed, or at least better organised hordes of warriors and plunderers, well practised in slaughter and cruelty, appear on the scene. Amputation of hands and feet, cutting off of noses and ears, are usual. This ill-treatment often has the secondary object of marking a prisoner, and to this must be referred the tattooing of prisoners of war. Lichtenstein saw a Nama whom the Damaras had taken prisoner. They had circumcised him and extracted his middle upper front teeth: "He showed us this, and added that if he had been caught by them a second time, these very recognisable marks would inevitably have entailed the loss of his life."



Articles belonging to Dyak head-hunters:—1. Shield ornamented with human hair; 2. Sword and knife; 3. Skull with engraved ornament and metal plate; 4. Basket to hold a skull. (1 and 2 probably from Kutei; 3 and 4 from W. Borneo. Munich Museum.)

Losses of life and health may be repaired by a few generations of peace, but what remains is the profound moral effect. This is the shattering of all trust in fellow-men and in the operation of moral forces, of the love of peace and the sanctity of the pledged word. If the politics of civilized races are not distinguished by fidelity and confidence, those of the natural races are the expression of the lowest qualities of mistrust, treachery, and recklessness. The only means employed to attain an object are trickery or intimidation. In the dealings of Europeans with natural races they have, owing to this, had the great advantage

of very rarely having to face a strong combination of native powers. The single example of any great note is the alliance of the "six nations" of North American Indians belonging to the Iroquois stock, which was dangerous to Europeans in the seventeenth and eighteenth centuries. An attempt at an alliance, which might have been very serious, was made after the so-called Sand River treaty of 1852 by Griquas, Basutos, Bakwenas, and other Bechuana tribes, but never came to completion, and recent years have again shown abundantly how little the South African tribes can do in spite of their numbers and their often conspicuous valour, for want of the mutual confidence which might unite them and give a firm ground for their efforts.

Constant fear and insecurity on the part of native races is a necessary result of frequent treachery on that of their foes. It is significant that the great majority of barbarous peoples are so fond of weapons and never go unarmed; and nothing better indicates the higher state of civic life in Uganda than that walking sticks there take the place of weapons. It is noted as a striking feature when no weapons are carried, as Finsch points out with regard to the people of Parsee Point in New Guinea.

The custom of treating strangers as enemies, under a superstitious fear of misfortune and sickness, or of knocking on the head persons thrown on shore by shipwreck like "washed up cocoa-nuts," was certainly a great hindrance to expansion. But we hear that among the Melanesians the question was discussed whether this was lawful, and that even strangers used to link themselves by marriage with a new place. If they belonged to a neighbouring island or group of islands they were not treated altogether as strangers, since they were not regarded as uncanny. Polynesians, who were frequently driven upon the Banks Islands, were received there in a friendly manner. If scarcely one of the innumerable exploring expeditions in Australia made its way without being threatened or attacked by the aborigines, we must not overlook involuntary violations of the frontiers of native districts, for even to this day in Central Australia unlicensed entry upon foreign territory reckons as a serious trespass.

Thus, as in the family and in society, we meet also in the political domain with a tendency to the sharpest separation. Who does not recognise in this latent state of war a great cause of the backward condition of the "natural" races? The greatness of civilized states, which have worked themselves up to the clear heights of development, lies in the fact that they act upon each other by means of mutual incitement, and so are ever bringing forth more perfect results. But this mutual incitement is just what is missing in a state of continuous war. The forces which make for culture both from within and without are alike weakened, and the consequence is stagnation if not retrogression.

Want of defined frontiers is in the essence of the formation of barbarous states. The line is intentionally not drawn, but kept open as a clear space of varying breadth. Even when we reach the semi-civilized states the frontiers are liable to be uncertain. The entire state is not closely dependent upon the area which it covers, especially not upon the parts near the borders. Only the political centre, the most essential point of the whole structure, is fixed. From it the power which holds the state together causes its strength to be felt through the outlying regions in varying measure. We have examples of frontier points and frontier spaces at every stage. The frontier spaces are kept clear, and even

serve as common hunting-grounds, but they serve also as habitations for forces hostile to civil authority, for desperadoes of every shade of villainy.

Not infrequently the formation of new states starts from these spaces. The cases in which sharp frontiers are soonest formed is where the two fundamentally different modes of civilization and life, nomadism and agriculture, come in contact. Here of necessity frontiers are sharply drawn against races of the steppes, and art endeavours to contribute its aid by building earthworks and even walls. The region of the steppes is the country of the great wall of China, and of the ramparts thrown up by Turks and Cossacks.

Leopold von Ranke has stated as a maxim of experience that when we study universal history it is not as a rule great monarchies that first present themselves, but small tribal districts or confederacies of the nature of states. This is shown in the history of all great empires; even the Chinese can be carried back to small beginnings. No doubt they have been of short duration with the single exception of the Roman

Kingsmill Islander in full armour. (Berlin Museum of Ethnology.)

Empire. Even that of China has passed through its periods of breaking up. From the Roman Empire the nations have learnt how great territories must be ruled in order to keep them great in extent, for since its time history has seen many empires, even surpassing the Roman in magnitude, arise and maintain themselves for centuries. Apart from the way in which the teaching of history has been taken to heart, the increase of population and the consequent accession of importance to the material interests of the people has unquestionably contributed to this.

Lango chief and magician. (From a photograph by Richard Buchta.)

But there are deeper-lying reasons for the smallness of primitive states. Among most "natural" races the family and the society form unions so large, so frequently coinciding, so exclusive, that little remains to spare for the state. The rapid break-up of empires is counterbalanced by the sturdy tribal life. When the empires fall to pieces new ones form themselves from the old tribes. The family of blood-relations, in their common barrack or village, represents at the same time a political unit, which can from time to time enter into combination with others of the kind; to which perhaps it is bound by more distant relationship. But it is quite content to remain by itself so long as no external power operates to shake its narrow contentment. Negro Africa, with all its wealth of population, contains no single really large state. In that country, the greater an empire the less its duration and the looser its cohesion. It requires greater organising and consolidating power, such as we meet with among the Fulbes or Wahuma, not merely to found,

1. Difuma dia Dikongo. Iron sceptre, borne by the Bashilang chief, Mana Katembe.

2. Baluba wooden shield with cross-weaving.

3. Basonge chief's staff of iron; the figure overlaid with sheet-copper.

4. Basonge ornamental spear (Zappu Zapp) inlaid with copper.

5. Ornamental spear from the Ruiki.

6. Basonge spear.

7. Baluba spear.

8. Samba spear.

9. Baluba double drum.

10. Baluba woven bark mat.

11. Baluba big drum, used at festivals.

(1-10 from the Wissmann Collection; 11 from the Pogge Collection.)

Insignia, ornamental weapons, and drums from the Southern Congo territory.

but also, even if with difficulty, to maintain kingdoms like Sokoto or Uganda. Even the Zulus, high as they stand in warlike organisation, have never been able to spread permanently beyond their natural boundaries, and at the same time maintain cohesion with their own country. They have not the capacity for planning a peaceable organisation. Even in the Mussulman states of the Soudan we meet with this want of firm internal cohesion; which is equally at the bottom of the weakness which brought down the native states of Central and South America. The more closely we look at the actual facts about Old Mexico, the less inclined shall we be to apply terms like empire and emperor to the loose confederation of chiefs on the plateau of Anahuac. The greatness of the Inca realm was exaggerated to the point of fable. When we hear of the renowned and redoubtable tribe of the Mandan Indians, we are astonished to learn that it numbered only from 900 to 1000 souls. In the Malay Archipelago it seems not to have been until the arrival of Islam that the formation of states rose above disjointed village communities. Even in our own day the great powers of South and East Asia lacked the clearness and definition in the matter of political allegiance, which are a privilege of the higher civilizations.

Instead of the extension of single states, what takes place is the foundation of new ones by migration and conquest. It is the multiplication of cells by fission instead of the growth of the organism. It is striking how often the same legend or tradition recurs in Africa or elsewhere. A monarch sends out a band of warriors to conquer a country or a town; if the enterprise fails they settle down quietly and marry the daughters of the people whom they came to overthrow. Such was the origin of the Matabele; such, it is said, that of the kindred Masitu. Thus too are explained the Fulbe settlements on the Lower Niger, and the Chinese oases in the Shan States. Without crediting all these traditions, we may see in them a proof at once of the great part played by war in blending races in ancient times, and of the difficulty of founding coherent states. Instead of these we find colonies which cut themselves loose either peaceably or after a war. The Alfurs of the eastern islands in the Malay Archipelago have definite rules for the government of their colonies; and in Polynesia of old, colonisation must have been as necessary in the life of a state as formerly in Greece.

Among races in a low stage the cementing force of contests waged against natural dangers, threatening the entire community and binding them together for common defence, is naturally but little felt. A strongly uniting power, by promoting the value of common interests, has a favourable effect on the general culture. In the low-lying tracts on the coast of the North Sea, in Germany and Holland, the common danger from broken dykes and inundation by reason of furious storms and high tides has evoked a feeling of union which has had important results. There is a deep meaning in the myths which intimately connect the fight against these forces of Nature, these hundred-headed hydras, or sea-monsters crawling on to the land, with the extortion of the highest benefits for races in the foundation of states and the acquisition of culture. No race shows this more than the Chinese, whose land, abounding in streams and marshes, was able to offer more than sufficient work to its embanking and draining heroes—Schem, Schun, Jao, and their like. In Egypt a similar effect of the anxiety for the yearly watering and marking out of the land is obvious from history.

Generally all common needs which draw men out of barren isolation must have the effect of promoting culture. Above all, too, they strengthen the constitution which organises the work done to satisfy those needs. States are created by common sovereignty and common requirements. But the sovereignty must come first. Outside the sphere of European civilization almost all states are ruled by intruding conquerors; that is by foreigners. The consciousness of national identity does not come into existence until later, and then makes its way as a state-forming force if the intellectual interests of the race add their weight on the same side. In almost all countries representing greater political units, we find for this reason various nationalities. At first one is superior to another, then they are co-ordinate; it is only in small states that the entire people has all along been formed of a single stock.

BOOK II

THE AMERICAN-PACIFIC GROUP OF RACES

A. §§ 1-9, Races of Oceania—B. §§ 10-15, Races of Australia—C. §§ 16-21, Malays and Malagasies—D i. §§ 22-30, Americans and Hyperboreans—D. ii. §§ 31-32, Civilized races of early America—E. § 33, The Arctic races.

MAP OF THE RACES OF OCEANIA AND AUSTRALASIA.

Straighthaired, light-brown Race (*Malays, pure or mixed with Chinese, Japanese and Indians*)
Crisphaired, dark-brown Race (*Melanesians, Papuas, Negritos*)
Wavy haired, brown Race (*East Malays, so-called Alfurs, Polynesians & Australians*) separate, or mixed with the two above named

Subdivisions:
A *East Malays (with curled hair)* B *Micronesians* C *Polynesians* D *Australians*
E *Malagasies*

Bibliographisches Institut Leipzig.

Polynesian clubs and insignia of rank.

1, 2. State-paddles from the Hervey Islands. 3-6. Stone clubs from the Marquesas Islands. 7. Fighting-club from the Fiji Islands. 8. Fighting-club from the Samoan Islands. 9. Fighting-club from the Tonga Islands. 10. Fighting-club from the Society Islands. 11. Fighting-club from the Hervey Islands.

A. THE RACES OF OCEANIA

§ 1. GENERAL SURVEY OF THE GROUP

The position of the Pacific Ocean in history—The Indians of Columbus—Situation of America in the inhabited world—Racial resemblances of the people of Oceania to Malays and Indians—Ethnographic relationships—Position of Japan and North-west America—The great groups; Oceanians, Malays with Malagasies, Australians, Americans—The Malayo-Polynesian family of languages—To what period are the relations of America, Oceania, and Asia to be referred—The vacant space between Easter Island and Perú, and the relations of America with Polynésia.

SINCE the Pacific ocean lies between the eastern and western portions of the inhabited earth, the inhabitants of its islands appear in a general survey as the instruments of an important ethnographical connection. From its western border we can follow Asiatic traces far towards the east in a gradual transition across the islands. They grow fainter as we go east, but some remain even in the most eastern islets of Polynesia, and some are found again on the opposite shore, especially in those districts of North-west America which are distinguished by points of agreement with Polynesia. It has been pointed out in the first section of our introduction how closely the inhabitants of the Pacific islands are connected with the Americans by the stone-period civilization, which is common and fundamental to the eastern half of mankind, as well as by that inclusion in the Mongolian race, which applies to by far the greater part of them. This connection is one of the most important facts in the ethnographical distribution of the human race as it now exists. It has been said that the key to the greatest problems of ethnography is to be found in America. If we can succeed in bringing the inhabitants of this the largest and most isolated island of the world into connection with the rest of mankind, then in any case the unity of the human race is established. But the connection can only be sought by way of the Pacific, for ancient America looks westward. From this side America must have been discovered long before the Northmen found their way to its shores from the east. Among the peculiarities of the inhabitants of Guanahani which most astonished Columbus, was their lack of iron, as he noted in his log-book as long ago as 13th October 1492. No subsequent discovery has succeeded in putting this significant fact of old American, and at the same time of Oceanian, ethnography in another light. With the exception of a strip in the north-west, which became acquainted with iron from Asia, America was, when discovered, still in the stone age. Even its more civilized races, while producing highly artistic work in gold, silver, copper, and bronze, use weapons and implements of stone. When Africa was discovered by the Europeans it was manufacturing iron right away to the Hottentot country. The races of the Malay Archipelago wrought artistically in iron. In Northern Asia only one strip on the coast where their traffic was small was without iron. Thus the domain of the ironless races lies on the eastern border of the inhabited earth; it embraces

Australia, the Pacific Islands, the Arctic region, and America. Absence of iron implies limitation to the use of stone, bone, or wood, for imperfect weapons and utensils implies, too, exclusion from the possibility of such industrial progress as is based upon iron and steel. Within the line which includes the ironless races there is to be observed also the want of the most valuable domestic animals; oxen, buffaloes, sheep, goats, elephants, camels, are here unknown, and consequently there is no cattle-breeding.

The racial affinities of the Americans also point, not across the Atlantic, but

Araucanian man and woman. (From a photograph.)

across the Pacific. When Columbus said of the natives of the West Indies, "they are neither white nor black," he means that he can compare them neither with Europeans nor negroes. In later times the difference of the Americans from negroes, and their resemblance to the races on the western border of the Pacific, has often been more clearly indicated. Whatever isolated characteristics we may yet be able to adduce among all races at a similar level of civilisation, the Americans stand nearest to those who live to the westward of them. If we unroll a map on Mercator's projection, and cast our eyes upon the earth and its races, the Americans find their place on the east wing contrasted with, and furthest separated from those who have their dwelling on the eastern borders of the dividing gulf of the Atlantic Ocean.

As the most easterly part of the Pacific-American region of the stone-using countries, America is at the same time the true Orient of the inhabited earth. The whole of America shares with Polynesia, and did once share with Northern

Asia, all the distinctive marks of stone-age countries, which have sometimes a more Polynesian, sometimes a more Northern Asiatic character. It is, however, in many respects poorer than either, since it possesses neither the pig nor the *taro* of the Polynesians, nor the reindeer herds of Northern Asia. This poverty, due to remoteness, confirms us in the notion that in America we have the final link in a chain of distribution of which the beginning is to be sought on the eastern shore of the Atlantic. With the ordinary idea that American evolution exhibits an isolated, almost insulated, independence, our view is only apparently in contradiction. Within the lines of its affinity with the eastern lands of the inhabited world, America is, in any case, a region of extreme independence, firmly based on the geographical fact of its situation between the two largest oceans. But this finds expression far less in individual ethnographical peculiarities than in points of conformity which mark it off as a whole. The specialty is not of kind but of degree. If we look at bodily characteristics, the conformity of all Red Indians among themselves is very great, so long as we consider skin, hair, and physiognomy; but if we include the skull, it breaks down. Here we are in presence of the same contradiction that meets us as an internal point of difference among the islanders of the Pacific. With A. von Humboldt, with the Prince of Wied, and with Morton, we can only hold fast to the external unity of the race. The results of investigating the skulls will, to all appearance, only prove that a more ancient variety of racial elements is concealed under the insular uniformity of to-day. But there can be no doubt as to the affinity of the American tribes with the great Mongoloid race, and, moreover, with that branch of it to which the dwellers in Eastern Oceania belong. Of both the similarity is shown in a comparison of colour, hair, and skeleton.

What in a racial point of view severs the people of Oceania most profoundly from their neighbours to the eastward, is the unmistakable extension of the Indo-African group of races into the midst of their island-region. Individual small groups of these negroids are undoubtedly scattered over all the archipelagos, and have here and there imparted to the original Malay colouring a deeper Polynesian tint; but neither are traces of them lacking in America. The species of mankind that occur in the South Sea Islands were long ago brought by Forster into two main divisions. One was lighter coloured, better shaped, of strong muscular build, handsome stature, and gentle, good-natured character; the other blacker, with hair becoming crisp and wavy, leaner, smaller, almost more lively than the other, but at the same time more suspicious. These are the "Polynesians" and "Melanesians" of more recent ethnographers. They cannot always be distinguished. Where it was supposed that only members of the latter group existed, scattered examples, nay, sometimes whole tribes of the lighter-skinned straight-haired race have turned up; while even among the Samoans, Virchow is decided in assuming a certain negroid strain. Finsch describes the natives of Port Moresby as follows: "We find here every variety, from perfectly smooth hair to the twisted wig of the Papua; curly heads, some of a red blonde, are frequent; Japanese or Jewish physiognomies, even men with eagle noses, reminding one of Redskins, are not rare. So too with the colour of the skin." The least we can do is to leave the possibility of mixed descent an open question, as Wilkes did with the Paumotu Islanders. The question of origin becomes more complicated; but it is surely better, in place of assuming a pure Polynesian origin

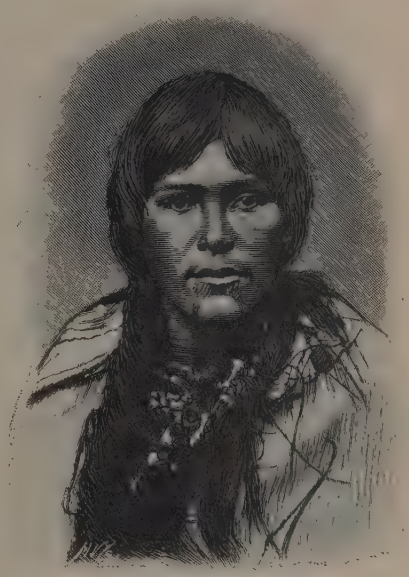
from the north-east, to draw also a line of affinity towards the north-west, than with Crozet and others to drag up again the worn-out hypothesis of a dark-skinned "primeval population." If two races dwell in the Pacific, two races may have migrated thither, especially if they were used to sea and ships.

The race-relationship with the inhabitants of the Malay Archipelago is apt to be asserted with all the more emphasis because the language-relationship so clearly points to it. But we must keep these two relationships quite distinct. Those races of the Malay Archipelago which show Asiatic affinities in lighter skin or

Bakairi girl from the Kulishu river. (After Dr. R. von den Steinen.)

Chinese eyes, are perhaps more strongly represented in some islands of Micronesia. The real Polynesians are more closely linked to the races with negroid elements in them dwelling eastward from Java and the Philippines. Physically the Polynesians are less like the inhabitants of the Malay Archipelago than are the Hovas of Madagascar. Since the time of the elder Lesson it has been usual to trace the descent of the Polynesians from Dyaks, Battaks, Maoris, Alfurs, owing to their obviously small resemblance to the Malays proper. Topinard even refers the mass of the Polynesians to North America; holding that conquerors, in no great number, may have come from Buru in Celebes; but we do not yet possess the fuller anthropological evidence, based on a multiplication of measurements, required to prove this view. Suffice it to say that it replaces the artificial theory, insufficiently grounded on either philology or ethnology, of a single immigration and simple branching-off, by a permeation and cleavage of races. In the next section, on the migration of the Polynesians, we shall adduce a series of facts in support of it.

Given the existence of a group of sea-faring races, who, gradually by dint of uninterrupted voluntary and involuntary migration, occupied various coast and island-districts of the Pacific Ocean, there follows necessarily, if we allow for long periods, a wide distribution over this large district; and therewith arises that ethnographic agreement which connects the lands on the eastern and western borders of the Pacific Ocean. Zuñiga's meteorological basis of belief for asserting the South American origin of the Tagals, namely, the impossibility of bearing up against the south-east trades, can as little be maintained as the likeness asserted by him to exist between Tagalese and Chilian. Since his day the knowledge of the ethnography of the American races has progressed. We see how both east and west of the Pacific religious beliefs and usages are based upon the same animistic belief and upon an ancestor-worship which not only stands on a similar footing, but often assumes precisely concordant forms; just as the treatment of corpses and the procedure of the priests embrace a whole host of similar practices. The principles of cosmogony, the high importance attached to the tribal symbols, even less prominent legends like that of the fountain of life—Boas has briefly indicated the remarkable conformity of north-west American legends with those of the Ainus and of Micronesia—and inconspicuous expedients of daily life, such as the employment of narcotics in the capture of fish, or the shape of the fish-hooks, the dressing of fish by steaming, the preparation of fermented liquors, are alike in both regions. Valuable evidence is given by conformities in tattooing, in painting the body, in details of decorative mutilation; more especially in the style of the necklaces made of little polished disks of red, white, and black shells. Even the metallic wealth of America could not oust the use of stone, bones, and shells. In connection with this important feature, we have already pointed out the common prevalence of a definite type of economic life. We may refer once more to the weapons; the encroachment of the Asiatic bow upon North and Central America or the similarity of the same weapon in South America and Melanesia. On Nissan, in the Solomon Islands, a stone axe has lately been discovered with a chamfer running almost round, just like the American, and like them fastened into a piece of wood split into a fork. Probably many more finds of this sort will occur. Wicker armour and cuirasses, with protection for the neck, are most widely spread on the Asiatic and American borders of the Pacific; but extend far into the island world of the tropics. Throwing-sticks were at one time thought to exist only among Australians and Eskimos; now specimens are known also from Mexico and Brazil. In North-west America, as in many parts of



Maori girl. (From photograph in the possession of Dr. Max Buchner.)

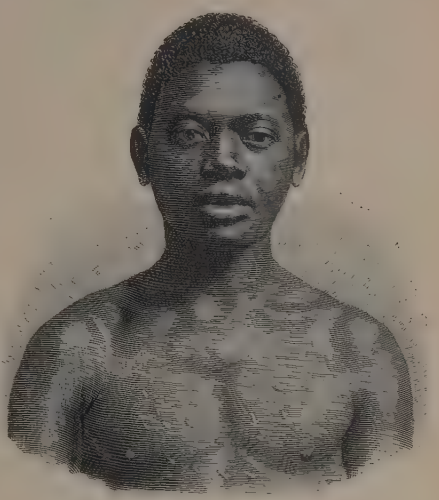
Oceania, especially in the Bismarck Archipelago, dancing-masks are used, with curious ornamentation based upon the conventionalised figures of animals. In one region we find otter and frog, beaver and hawk, arranged together; in the other snake, lizard, fish, beetle, bird. The masks of New Ireland remind us to a striking degree of those used by the Haidas. Less importance is to be assigned to the fact that in both these cases the eyes, and the ornaments in the shape of eyes, are made with inlaid shell, than to the striking agreement in the connection formed by the tongue dependent between the upper part, representing

Men of Ponapé in the Carolines. (From a photograph in the Godeffroy Album.)

a broad animal's head, and a second animal. This arrangement of animals' heads in a row along the middle line reminds us of North America, no less than the eye-ornament, which is an essential element of the Pacific and American styles. We must indeed note that it is not always between races lying nearest to each other that the closest relations prevail. On the other we meet agreements not merely at single points, but running all through the groups. Thus not merely does the Dyak loom resemble that used by the Indians of North-west America; the practice of head-hunting, the cult of skulls, the use of human hair for ornament, are common to both. The ornament of Malay fabrics is remarkably like that of the early Americans. Among the Calchaquis of Northern Argentina we find pottery painted with line drawings of birds, reptiles, and human faces, which remind us of Peruvian, and no less, in selection and conventional treatment of the themes, of Malay work. In customs too several features recur in a marked way. Particular forms of greeting, the declaration of an agreement by the transfer of

a piece of stick, the method of communicating by means of wooden drums, and so on. But over all arises, like a great edifice common to all, the social order based on "mother-right" and exogamy. We find it most distinctly in Australia and Melanesia; then again in America, while between the two, in Polynesia, lies a region in which it has broken down and become obsolete. In South and North America we meet with the same system, often repeated even in small details.

The impoverishment which we find becoming more and more conspicuous in the animal and vegetable world of Oceania, as we proceed eastwards, in no way holds good of mankind. In the Pacific the most recent development holds the eastern parts; the west and south are backward. The Melanesians occupy as it were a depression in the level of culture between Malays on the one hand and Polynesians on the other. But on the South American shores we find in Peru a region of yet higher culture. If to the works of art we add what is from an ethnographic point of view a more important intellectual possession, namely religious conceptions, together with social and political institutions, we find the east standing higher than the west; and that is true not only for Melanesia, but for Micronesia as well. No mistake on this point need arise from the fact that more objects in our museums come from islands which have been ransacked later, or which have fallen less into decay by reason of white influence. In the general position held by the two great Pacific groups of races towards each other we can recognise a great difference of level. The Melanesians are on the whole inferior to the Polynesians; they represent an earlier development, retaining much which among the latter has already become obsolete. We cannot, however, at the present day decide whether the proximity of America or independent evolution has been the cause of this superiority in the eastern parts of Oceania. Still not only the points of agreement, but also the far shorter distance, are in favour of America.



Boy of New Ireland. (From a photograph.)

If we group the races of this wide region into the Americans dwelling on the eastern shores of the Pacific, and the inhabitants of the islands on its western border, on the south, and far out in the ocean, we may denote the second group by the name of Oceanians, seeing that the Pacific is the only ocean that possesses so widespread a population having a character peculiar to itself. The possession (or lack) of a host of important articles links the oceanic races together in contradistinction to the Malays on the west and the Australians on the south. From the Australians they are sharply divided; but on the other hand they are connected with the Malays by transitions which point partly to a closer connection of origin, partly to influences of long standing. But as they have many points, notably the use of stone, in common with the Americans, while the Malays

are within the domain of iron, they hold a very different position towards these latter from that held for example by the most westerly outliers of that race, the Malagasies. While the Oceanic and Australian races have, together with the Americans, remained in the stone period of civilization, the Australians indeed degenerating in their isolation, Malays and Malagasies have gained by means of influences from Asia and Africa. The importance of the Malays lies to a great extent in the fact that they have been instrumental in the diffusion of these influences eastward. But the connection of the Oceanians with them reaches back to an early period. When the regions of Oceania were first unveiled to Europeans in the sixteenth century, iron was found to have advanced as far as New Guinea, and the influence of India, as shown by details of language and artistic style, had extended to the same point. This influence was spread by those active traders and expert seamen, the Malays, and with the support of Eastern Asia, which had not then elevated exclusiveness to a principle of state, but had kept up an active traffic with the south, it would have spread further. According to the statement of George Spilberg, the crews of the fleet, which was equipped in 1616 against the Dutch in Manilla,

Man of New South Wales. (From a photograph.)

were composed of Indians, Chinese, and Japanese. An Indian bronze bell, with an inscription in Tamil, has been found in the interior of New Zealand; it was the ship's bell of some Mussulman Tamil, and dates from the fourteenth century at latest. The place of these weak and irregularly-acting influences has now been taken by the weighty advance of the Europeans, under whose hands in the course of 300 years almost all that was peculiar has died out, together with a great part of the population.

The Malayo-Polynesians are at this day the most pronouncedly insular people on the earth; their only remaining hold on the mainland is by the peninsula of Malacca. But we may maintain a continental origin for individual tribes now living on islands, like the Malays and Acheenese of Sumatra, without any inducement from the desire of finding an origin, or so-called cradle of mankind, for all the races of the earth, on the continent of Asia. H. Kern assumes, on philological grounds that the home of the Malayo-Polynesians, including the Malagasies, was situated in a tropical country, where sugar-cane, coco-nut, rice, banana, rattan, and *taro* grew, and where they were acquainted with dogs, pigs, poultry, various kind of monkeys, turtles, probably also buffaloes and crocodiles, and possibly even elephants and horses, and that it was at no great distance from the sea. He is most inclined to look for the district of their origin in the countries which are now called Cambodia, Annam, and Siam. The Malayan starting-point for the Polynesian migration has been connected with the word *bolotu*, used by Polynesians for the next world, the abode of the gods; in which a reminiscence of Buru has been imagined. In spite of various indications in that direction, we can hardly reconcile ourselves to the notion that a single insignificant island of the great Archipelago can have given rise to the widely-scattered peoples of the Central Pacific—all the less when we find Malayo-Polynesian affinities extending to the Melanesian Islands and Madagascar. The continental origin of the Malayo-Polynesians is of special import for the right understanding of them, since it reveals to us the possibility of their wider extension in former times in the western coast districts of the Pacific. Their presence in Formosa, the traces of them in Japan, lead in that direction to a point where the chain of relations with North-west America becomes more clearly visible. The question whether these races had once a wide extension on the

Dyak woman of Borneo. (From a photograph in the Damann Album.)

continent may here be passed over. Between Japan, where north-west American influences are recognisable, and Formosa, to which the Malayo-Polynesians extend at the present day, so narrow a gap is left that transference is almost certain. But a more important fact is that with so much larger an extension either on the coast or on islands towards the north, the possibility of direct connection by means of migration, voluntary and involuntary, is increased. The coast northward from the mouth of the Columbia river with its numerous islands, more especially the part between Puget Sound and Cape Spencer, the Beehive as Dall calls it, where continuous swarms of men are reared and sent forth, is some four thousand miles in a straight line from the Japanese archipelago. On this side also, and from hence northward to the Behring Straits, there stretches a region where the art of navigation is highly developed. The points of agreement with America of which we get glimpses even under the peculiar and high civilization of Japan grow thicker as we go north, until on the Behring Sea we arrive at identity between the races dwelling on the Asiatic and American shores. That very more recent extension of Asiatic characteristics over North America, from which it results that South American races show in details points of conformity with those of the south-west Pacific, while the North American are more clearly traceable to the north-west Pacific, testifies to the advantages of the northern road.

The Pacific islands are in the tropical zone separated from the American shore by a space of forty to sixty degrees of longitude in which there are neither islands nor inhabitants. The single group of any size, namely the Galapagos, which can be reached in three days from the South American coast, seems never to have been seen by any man before the first visit of Europeans. If we consider that this empty space is only one-third as broad as that between Easter Island and the most easterly islands of the Malay Archipelago, and that the Easter Islanders, in order to reach their island from the Samoa group—generally considered the common centre of dispersion for the Polynesians,—had to traverse a much longer road than that space would involve, the gap will appear to us of much less importance. In proportion to the inhabited part of the Pacific with its many islands, this rift is not wide enough to prevent us from regarding the Pacific like the Indian Ocean, and in contrast to the Atlantic, as an inhabited sea. We have no historical record of voyages, voluntary or involuntary, in the region east from Easter Island. Peruvian annals mention coasting voyages and more distant naval expeditions for conquest or discovery. Pizarro met with trading ships, and the Chinchas as well as the Chimus had traditions of a distant home across the sea. But there is no historical indication of any immediate traffic between Polynesia and South America. It is far more probable that the agreements and resemblances are all contained within the four corners of a common inclusion of both parts in the great Pacific group of races. The Chinese imagination again of a great land in the east can only be interpreted as meaning North-west America, and the gold-bearing islands which the Japanese placed in the east—Tasman was sent to discover them and found the Bonin Islands,—belonged to legend. As to the derivation of the old American civilizations from Asia, we shall have to speak of it in the American division of our work.

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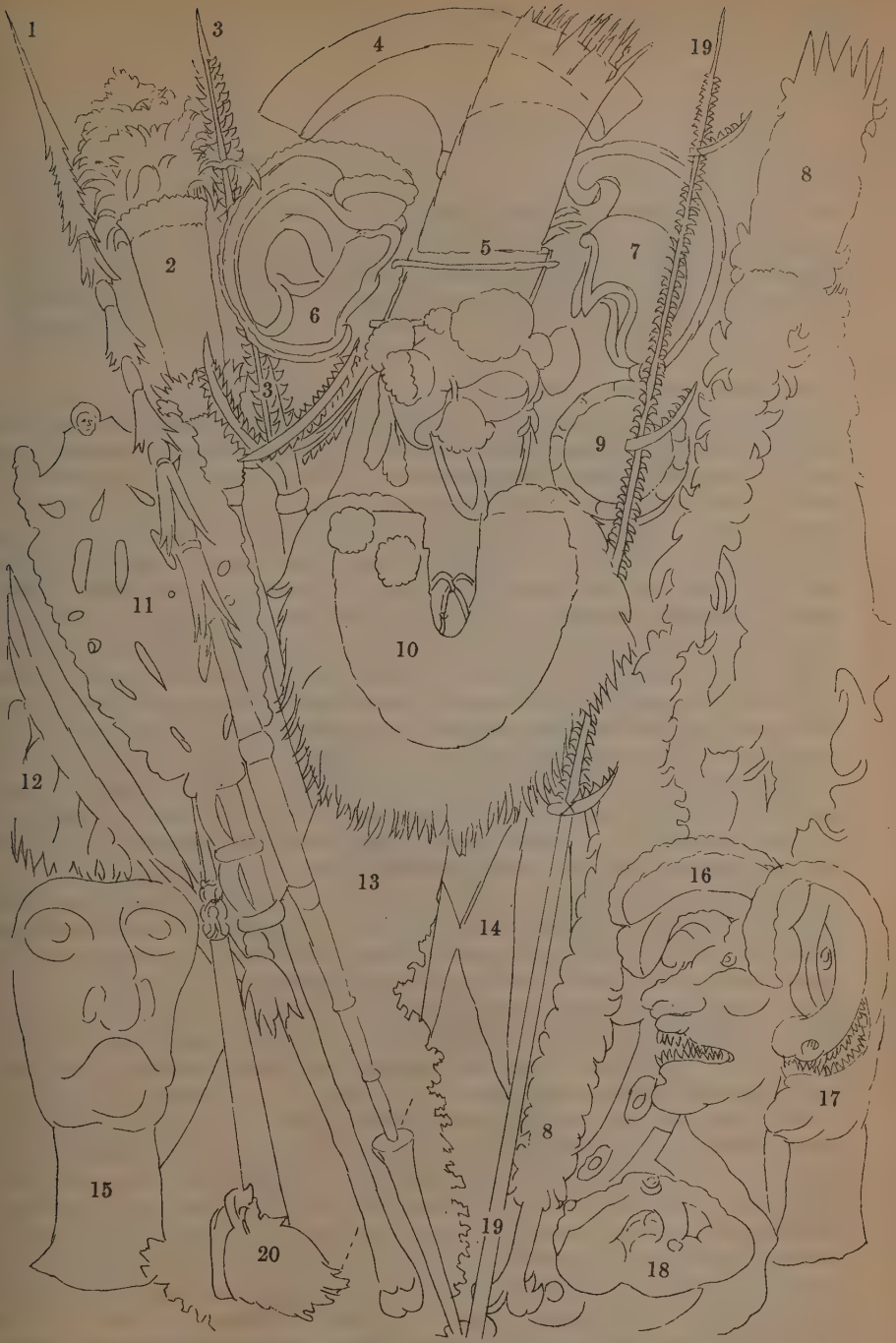
POLYNESIAN WEAPONS AND COSTUME.



POLYNESIAN WEAPONS AND COSTUME.

1. Lance: Viti.
2. Feather-sceptre: Sandwich Islands.
3. "Partisan," with shark's teeth: Kingsmill Island.
4. Fan: Sandwich Islands.
5. Dancing-cap: Cook or Society Islands.
6, 7. Feather helmets: Hawaii.
8. Sacred staff: Cook Islands.
9. Feather head-ring: Sandwich Islands.
10. Ornamental gorget: Tahiti.
11. Idol: Tahiti.
12. Dance Club: Vanikoro, Santa Cruz.
13. *Tapa*-cloth: Tonga.
14. Feather cloak: Hawaii.
15, 16, 17. Feather masks: Hawaii.
18. Water-bottle: Fiji.
19. Spear with shark's teeth: Kingsmill Islands.
20. Club.

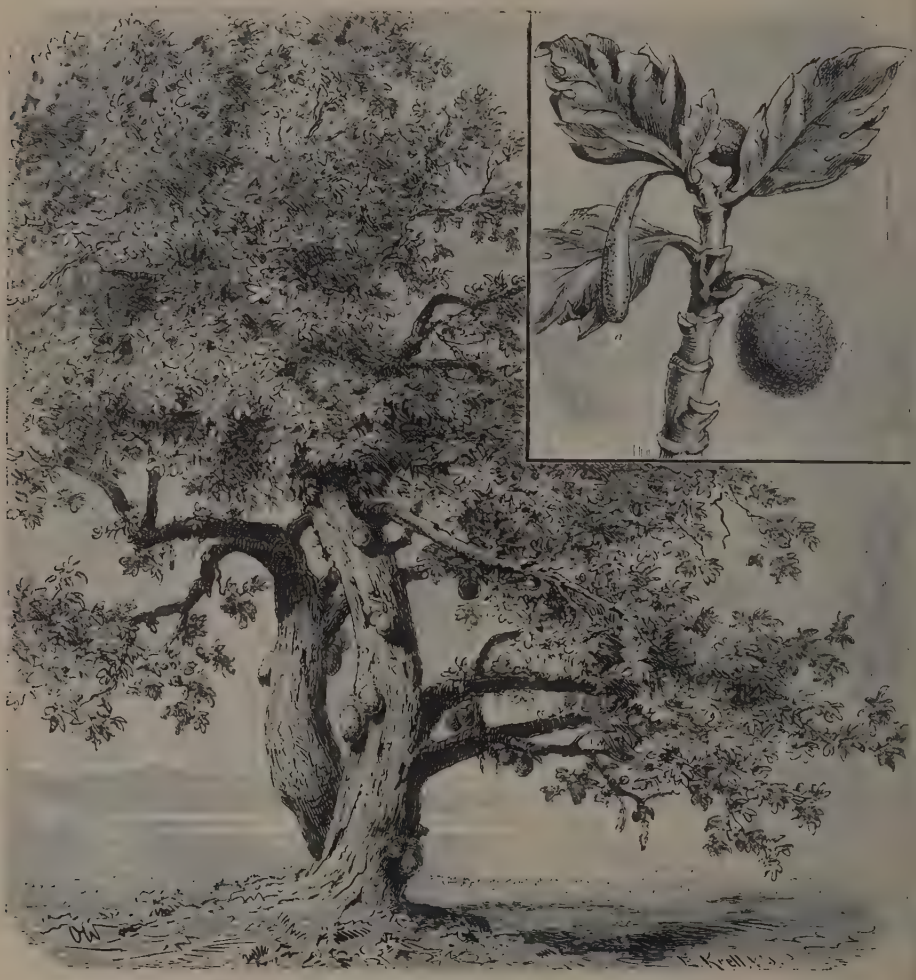
All one-tenth of natural size. Nos. 1, 2, 4, 9, 12, 13, 18, from the Ethnographical Museum, Berlin. The rest from British Museum and Christy collection.

§ 2. THE RACES OF THE PACIFIC AND THEIR MIGRATIONS

The island groups, their climate and their cultivated plants—Number of the population, its decrease and shifting—Traces of denser population and of civilization—Ruins—Migrations—Involuntary migrations in the Pacific—Navigation and shipbuilding—Orientation—Trading journeys—Famine, war, and other grounds of emigration and immigration—Legends of migrations—Migrations in mythology—Community of speech and agreement of customs in Polynesia—Legend of Hawaiki—Polynesians in Melanesia and Micronesia—Uninhabited islands—Date of the migrations—Ethnographical groups in the Pacific—Genealogy of the Australians.

THROUGHOUT the western and central part of the Pacific are many thousands of islands scattered about in numerous groups. On the west they are connected by larger islands with Australia and the Malayan Archipelago. There is first of all New Guinea with the inner chain of the Melanesian islands ending on the east with the Fiji group; the New Zealand group lies isolated to the south-east. Eastward beyond Fiji and northward beyond New Ireland lie countless smaller islands forming Polynesia. They stretch away from the Carolines to Easter Island, which is separated by a space of nearly 2500 miles from the South American coast, and they stretch from the South Island of New Zealand to Hawaii. Within the angle formed by a line running through the Mariannes towards Japan and another running through the Pelew Islands towards the Philippines, there lies a second group of still smaller islands called Micronesia. The separation between the three groups does not penetrate far; smaller groups within them may much more naturally be excluded. Individual countries, larger and smaller, have plenty of common peculiarities both in natural character and in the mode of their origin. Long ago a natural division into high and low islands was recognised, the latter including the coralline, the former the volcanic islands. This simple classification does not indeed wholly correspond with the domain of phenomena, surface phenomena, volcanic phenomena, and violent earthquakes occurring over the whole length and breadth of the region; while the coral formation has been developed to an extent such as is nowhere else found in that tropical belt of the Pacific which is richest in islands. Only certain islands, the chief of them being New Guinea and the two larger islands of New Zealand, afford space for development on a large scale, and sufficient to permit, more especially in Melanesia with its larger islands, the growth of differences between up-country and coast tribes. New Guinea does not indeed hold a position in Melanesia proportionate to its size, being more sparsely inhabited than most of the islands lying in front of it, an evidence for the indolence and unproductiveness of true Papuan labour and its development. On the other side the distance of New Zealand from Polynesia prevented it from exercising those more penetrating effects which might have been expected to emanate from the largest among the islands. Thus we have before us, almost universally, only the population of small and numerous areas, very unevenly endowed, and widely separated from each other. Of all people the ethnographer must bear that well in mind. Further, the denser population is confined to the coast spaces, while the interior is thinly inhabited. Rapid changes from habitation to non-habitation are frequent under these conditions; nor is the list of islands now uninhabited, but showing traces of former habitation, a short one. The

majority of the Pacific islands lie in a region where the prevailing currents and winds move in a westerly direction, north and south of the equator, between the annual isothermals of 68°. It has often been pointed out how the prevailing east to west direction of the trade-winds would facilitate immigration from the New



Bread-fruit tree (*Artocarpus incisus*) : (*a*) inflorescence, (*b*) fruit.

World. In small districts the influence of the winds and currents is no doubt great ; but the facts of migrations and castings-away show that, though it may often determine the lines of distribution of mankind, it does not always do so. In more recent times, meteorology has no less shown us the existence of westerly currents of air, than a study of the ocean has taught us that there is an equatorial counter-current in the same direction. In their regular traffic the Polynesians wait for a west wind to sail eastwards, and they have a corresponding tradition that their domestic animals were brought from the west. By the time we reach

the Hervey or Cook's, and Tubuai or Austral groups, the west winds, which in the southern hemisphere prevail south of 20°, begin to make themselves felt.

The flora and fauna of this region, the pronounced Asiatic character of which Chamisso was the first to refer to the eastward migration of the Oceanians, have little to offer for human use. Some of the most important cultivated plants and domesticated animals have been imported; such as pigs, dogs, poultry, *taro*, and perhaps bananas too. But the tree which is most closely connected with the island world, and which does most to give a character to its landscape, the coco-nut, renders existence possible even to the inhabitants of the remote and low-lying islands. While green, the nut contains a liquid which is cooling when fresh and intoxicating when fermented. The oleaginous kernel, when older, is nutritious and gives oil in abundance. The shell of the nut provides vessels; the fibres of its outer side furnish a durable fabric; the leaves are used for thatching houses, plaiting mats, sails, or baskets; the stem serves for building huts and boats. Lastly, the coco-nuts with their spreading roots contribute to hold the coral islands together and to extend their area; being, as they are, among their earliest and most frequent inhabitants of the islands. Next to the coco-palm the bread-fruit tree is the most profitable of all things grown and cultivated in Polynesia. Cook's saying, that six bread-fruit trees would keep a family, is well known. In the third place comes the chief article of real agriculture, the *taro* plant. It and the bread-fruit together have made life almost too easy in those parts. The sago-palm extends from the west as far as Melanesia; a great part of the population of New Guinea is dependent on it.

Taro (*Caladium esculentum*)—one-half natural size.

Thus, in spite of their wide distribution, almost all the inhabitants of the central Pacific have the more important conditions of life in common. If to this we add the common possession of a mass of ethnographic characteristics we shall see that, in spite of significant racial differences, Polynesia, Micronesia, and Melanesia form a single ethnographical domain. Islands of their nature make their inhabitants seamen and wanderers. Accordingly we have here a region of extensive colonisation, and we find settlements from one group of races in the district of another; though, by a curious contrast, in countries like New Guinea or New Zealand, where there is such ample room for extension in the interior, the

people stick, in the great majority of cases, to the coast. Implements and customs connected with seafaring and fishing show a general agreement. They must all do without iron, and consequently have much skill in the working of stone, wood, and shells. In weaving they have attained a high level ; the loom has spread from the west, while in the east and south they manufacture bark and bast. The few domestic animals, the usual fruits of the field, and the intoxicating *kava* or *ava*, are found throughout all three districts. In the social life the preponderance of the tribe or commune over the family is more pronounced than perhaps anywhere else ; while in the realm of religious conceptions there has arisen, out of a large number of ideas common to all Polynesia, one of the most complete mythological systems owned by any primitive race, which, with its luxuriance of legend, has overspread this vast area, and parts yet more remote.

The present population of the Pacific in the space between the western promontory of New Guinea and Easter Island, and between the Hawaiian Archipelago and New Zealand, is reckoned at not more than a million and a half, not including whites. Yet even to-day on some of the Polynesian islands we find such a density as borders on over-population. The Kingsmill, or Gilbert, group counts 35,000 in less than 200 square miles, the Marshall Islands 12,000 in 170. But these are all cases in which the inhabitants of small islands have the run of the coco plantations and fishing-grounds belonging to an entire archipelago. Tonga too—for one of the less bountifully endowed groups,—the Solomon Islands, the Bismarck Archipelago, show a population that is relatively not at all thin. Generally the smaller areas of land tend to a closer packing of the population. But the great majority of the Pacific islands hold far fewer persons to-day belonging to the original native races than they did before the arrival of European influences. We must look not only at the figures, but at the geographical aspect. The South Island of New Zealand and the Chatham Islands have no longer any but a small and vanishing aboriginal population, and these crowded back into the furthest corner ; while all the natural advantages have passed into the hands of the more numerous and more active white inhabitants. The number of the Maoris between 1835 and 1840 was reckoned with good reason at 100,000 ; to-day there are 42,000, including numerous half-breeds, who will soon be the sole survivors. So it is with Hawaii, and so even with the small islands. If we inquire the causes of this phenomenon, which has already given occasion for great dislocations in the regions of races and peoples, we find them everywhere the same. After the remarks made in the Introduction (pp. 11, 12), we can sum up the causes in the words used by Pennefather in 1888 as applied to the case of the Maoris : drunkenness ; diseases ; clothing in bad European materials instead of in their own close-woven mats ; a state of peace, which has allowed them to fall into indolence, and to exchange healthy dwellings on fortified hills for damp sites in the neighbourhood of their potato-fields ;[1] prosperity, which has introduced leisure and pernicious modes of enjoying it. Progress on the lines of European custom is opposed by their hereditary usages, especially their political subdivision and the absence of private property in land. But the cannibalism of the Maoris has played a special part in the destruction of the Maoraris of the Chatham Islands.

The importation of European diseases has in many districts accelerated the

[1] [Yet, says the late Mr. Stevenson, the Marquesans are dying out in the same houses where their fathers multiplied.]

rate of decrease. Kubary's inquiry into the astonishing disappearance of the Pelew Islanders, the most complete and comprehensive inquiry that we have for any portion of Oceania, reveals a whole string of internal causes. Important phenomena in the social life of the island races, such as adoption in its various forms, the descent of titles to sons, the ruined state of large houses, point to a long previous period of this lamentable decrease. The natives wrongly ascribe it to the climatic disorder, influenza; but the main cause must be sought in their dissolute way of life, particularly in the case of the women. The deficiency of births is so great that total extinction is anticipated in the near future. Early licentiousness in both sexes; special features in married life of a kind to deter the younger women, so far as possible, from entering into bonds, and to inflict upon the others the heavy labour of *taro* cultivation, keeping couples apart and placing considerations of utility before everything; lastly, the practice of head-hunting, which is not yet obsolete. Kubary stated in 1883 that in the last ten years *only* thirty-four heads had been cut off; these causes offer a sufficient explanation. In the light of the description given by the writer just quoted, the entire population would seem to be in a morbid state, what with a tendency to dysentery, induced by living exclusively on *taro*, the prevalence of intestinal parasites, the liability of all the older people to chronic rheumatism as a result of the climate and the exposure of the naked body, and the lack of endurance of the man under circumstances of bodily exertion.

This decrease is in close connection with a decadence from levels of development formerly attained in political and social matters, and even in arts and crafts. In Micronesia they have ceased to build the large club or assembly houses of former days; and therewith a source of endless encouragement to fancy and skill has been dried up. The people make fewer things than they used to do—their originality has died out; they are in a way to become poor ethnographically. A glance into the past of these races reveals remains of bygone generations, telling of another state of things, of a larger population, of more considerable results from labour, of more enduring works. In the small Louisiade group there is a network of roads far closer than is wanted by the present population. On Pitcairn's Island, now deserted, there are the stone foundations of *morais*, stone-axes, and in the caves skeletons lying near drawings of the moon, stars, birds, and so on; ancient fortifications crown the hills of Rapa, while in Huahine in the Windward Islands a dolmen, built on to a *morai* in terraces, is found beside a road of cyclopean stones. The ruins of Nanmatal in Ponapé consist of square chambers, fenced with pillars of basalt and separated from each other by channels. There are eighty of these stone islets; some of them having undoubtedly once served as sepulchral monuments. Among these ruins the tomb of the kings of Matalanim rises, on a base 6 feet high and 290 feet long by 230 broad, to a height of about 30 feet, with walls 10 feet thick, formed of basalt columns.

The most classical instances of this wealth of relics left by a more numerous and more active generation are preserved in Easter Island. There the gigantic stone images are something wonderful. Their great number is no less astonishing than their size and the comparative high level of their workmanship. Even now they are reckoned at several hundreds; their height is nearly 50 feet, while in one case the breadth across the shoulders is not less than 10 feet. Many of them have

been thrown down and half-buried in rubbish; but others stand on broad platforms built of hewn stone. Originally many are said to have had head-coverings of reddish stone; cylinders, according to Cook's description, of 5 feet diameter. Some have hieroglyphics carved on their backs. These images, weighing many tons, must at one time have been lowered down the mountain with hawsers, and prepared, that is, engraved, in pits below. Naturally these images, whose number, size, and clever workmanship contrast so strangely with the smallness of the island, and the state of extreme simplicity in which the first Europeans found the islanders, have given rise to many speculations as to their origin. Even so

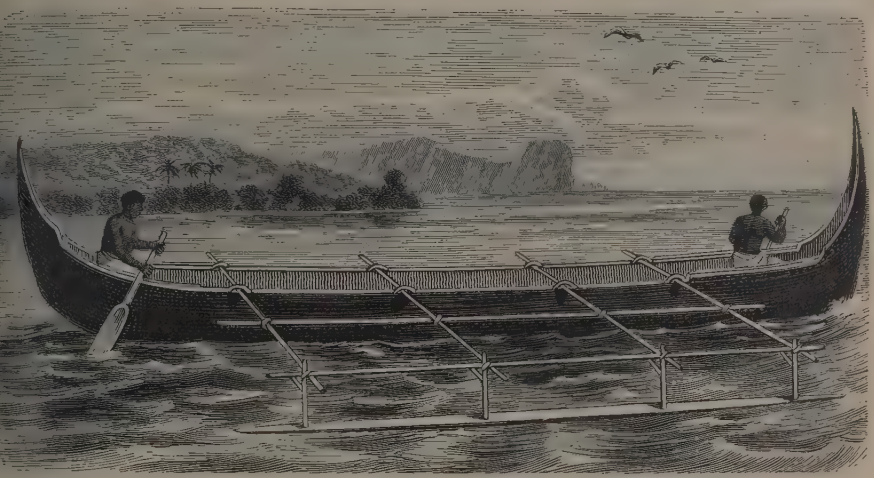
Sepulchral monument in Ponapé, Caroline Islands. (From a photograph in the Godeffroy Album.)

sober a judge as Beechey declares it to be simply impossible that the Easter Islanders can have executed these works; both the sculpturing and the erection of them, he thinks, far exceeded any capacity of theirs. What makes it yet more difficult to answer these questions is the ignorance in which we are as to their age, as to the reason why so many have been thrown down, and, lastly, as to their object. Earthquakes of course may have thrown them down; but no observer, old or recent, has been able to divine the purpose they served. The impression of decadence which one receives from the sight of such mighty works among a race now so scanty, feeble, and impoverished, is strengthened when we find that Easter Island shows masonry adapted to various purposes in the shape sometimes of staged platforms, sometimes of huts, above or below ground, and with or without interior ornament in colour.

Oceania, as being, of all regions which men inhabit, the richest in islands, the poorest in land, seems at the first glance a most favourable soil on which to study isolated evolutions of civilization. It is, however, a region of constant intercourse, and nowhere offers a wide or fertile soil for permanently independent evolution.

t furnishes interesting evidence of the special directions in which individual elements in the fund of civilization possessed by a "natural" race can develop, but it shows us no persistency of a single racial type and a special civilization. Instead of the deep gradations which divide the Fuegian, a kind of Bushman or Hottentot, from the Inca of Peru, expert in many arts, rich, devoted to sun-worship; Oceania displays, in the domain of culture, only slight variations on the same ground-theme. Its great problem is not the tranquil development of local peculiarities, but the equalising effect of migration from one archipelago to another, and ultimately from quarter to quarter of the earth.

The distribution of Malayo-Polynesian races over an area covering 210 degrees of longitude and 80 of latitude, is an astounding fact. It gains in significance



Outrigged boat, New Britain. (From a model in the Godeffroy collection, Leipzig.)

when we remember that wide tracts of very deep ocean divide these islands, while the islands are so small that even exploring navigators did not discover them till late, and then with difficulty. No cause appeared too vast to explain such a phenomenon, and we cannot be surprised that not only older inquirers like Quiros, or seafaring men like Crozet and Dumont d'Urville, but even a man like Broca [1] could admit the idea that in this island-world we have the remains of a submerged continent. Even the hypothesis of a separate creation of races so isolated has been brought into play here. But migrations of the islanders are mentioned even by Forster and Cook; and have been more and more recognised as the great fact in the ethnography of the Pacific. Numerous indeed are the records of accidental involuntary migrations. When Cook came to Watiu in 1777, his Tahitian companion Mai found there three fellow-countrymen, all that were left of twenty, from Tahiti, 750 miles distant, who had been cast away twelve years before. In 1825 Beechey found on Byam Martin Island forty men, women, and children, the survivors of 150 from Matia, who some years before had been caught in an unwontedly early monsoon, and driven 625 miles to Barrow Island; subsequently leaving this on account of its barrenness, and settling on Byam

[1] [Not to mention Darwin and Lyell.]

Martin. A remarkable point in this is that the course from Matia to Barrow Island is against the trades. In 1816 Kotzebue found on Aur, one of the Radack Islands, a native of Ulie, who had been cast away with three others while fishing, and covered a distance of 1850 miles against the trades. Inhabitants of Ulie were carried to the Marshall Islands also in 1857; Ralick islanders to the Gilberts, Gilbert islanders to the Marshalls, and westward to the Carolines and Finsch reports a more recent case of castaways from Jaluit or Bonham Island to Faraulep in the western Carolines, a distance of 1500 nautical miles. During his short stay on Yap, and then in Pelew, Miklouho-Maclay often met

Boat of the Mortlock Islands, with outrigger and sail of rush-matting. (After a model in the Godeffroy collection.)

people who had been cast away on other islands and had returned. Kubary, in his account of the Pelew Islands, mentions as a well-known fact that the inhabitants of the Carolines are often driven to the Philippine Islands. In every case they make the island of Samar or the most southerly point of Luzon, just where the northern equatorial current breaks on the island wall of the Philippines. On the other hand, inhabitants of the Philippines seem never to have come to Pelew though plenty come from Celebes and the islands in the Celebes Straits.

Another region where people are often cast away is in and about the Fiji Archipelago, its boundaries being indicated by Tikopia, Lifu, Savaii, and Vavau. Active as the regular intercourse may be between Tonga and Fiji, the presence of numerous Tongan and Fijian half-breeds exactly on the windward side of the Fiji Archipelago would suggest that people had been driven westwards, even ha

we not clear evidence that they have been driven from Tonga and Savaii to the still more westerly islands of the Banks group, to the New Hebrides, and the Loyalty Islands. They appear even to have got to the central Solomon Islands. It is when we come within the Melanesian groups that these movements gain in interest, owing to the large number of Polynesians to be found there, or the traces, often so clear, of Polynesian influence.

Boat of Niue, Savage Islands. (After a model in the Godeffroy collection.)

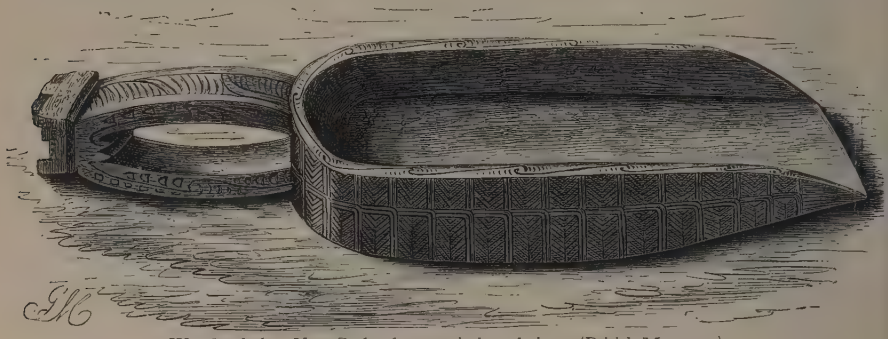
A third region is even more important by reason of its local connection with the Polynesian legends of migrations. It embraces the Hervey or Cook Islands, the Tubuai or Austral Islands, the Paumotu or Low Islands, and the Society

Boat of the Hermit Islands. (From the same).

Islands. To supplement the instances already given we may mention the involuntary journey of Williams in a boat from Rarotonga to Tongatabu, and that of several natives from Aitutaki to Niue ; in both cases distances of a thousand miles were traversed in a westerly direction. Those natives of Manihiki who were driven by a storm to the Ellice group in 1861, and there spread the first Christian teaching, accomplished a still longer course. Between the Society Islands, especially Tahiti, and the Paumotu group, a particularly close connection has been established by frequent castings-away both with and against the trades. Cases have been known here also in which persons have been driven southward,

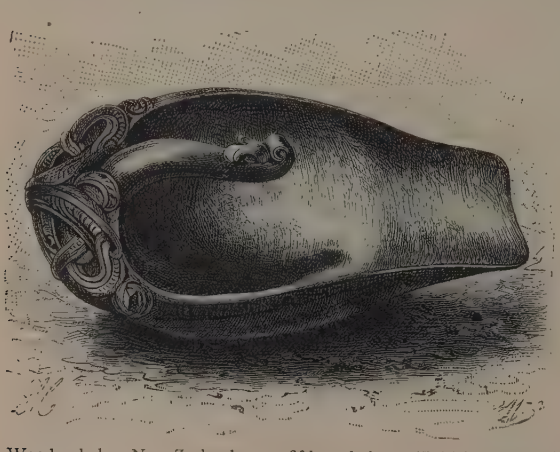
but never beyond the tropic, so that no connection has been formed with New Zealand. Finally, we have evidence in involuntary journeys made from Tahiti to Byam Martin and Bow Islands that, especially during the summer, it is possible for vessels to be driven against trade winds and currents in an easterly direction that is to say in the direction in which the Easter Islanders must have reached their remote land.

Reports about castaways in this direction from the continent of Asia or from



Wooden baler, New Zealand—one-sixth real size. (British Museum.)

Japan are more rare. Apart from some established historical cases we may here refer to the repeated instances of persons being driven from Japan northward and eastward to Lopatka, Kadjak, and Vancouver Islands, which are equally confirmed by history. Even from China ships are said to have been cast away on the north-west coast of America. Evidence of journeys in the opposite direction is afforded by articles of undoubted north-west American origin which come ashore on the coasts of the Hawaiian Islands. With the South American continent there are no manifest relations, although in higher latitudes westerly winds and currents lead towards South America, while in equatorial regions they are easterly and lead away from it. The only conclusions that are possible here, and will be later investigated, are based upon the data of ethnography.

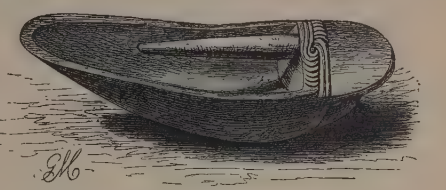


Wooden baler, New Zealand—one-fifth real size. (British Museum.)

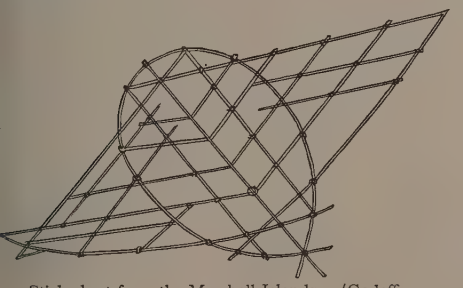
Even if we regard only the involuntary journeys, the Pacific Ocean appears no longer as a watery desert where islanders live in seclusion; but mutual relations of the most varied kind, both between the islands, and between them and the continents, become manifest. Castings-away are no exception but the rule, and take people in every direction. Ethnography has to take account of these casual relations which in the long vista of years have stretched a dense network from

one land to another. She must give up the idea of any sharp separation between the races of Oceania, and allowing all consideration to disunion and peculiarity, must give its due to every cause which makes for union.

But this view is met also by the life and ways of the Oceanians, their mode of thought, and their tradition. There is in them a pronounced migratory sense. Journeys of many hundreds of miles are not seldom undertaken by them, either for the purpose of falling upon the inhabitants of neighbouring islands and getting heads for their canoe houses, or in order to meet on some appointed day of the year for a general exchange of goods. The inhabitants of Yap, and Simbo, and the Tongans are specially renowned for voyages of this kind. The piratical inhabitants of Biak also traverse hundreds of miles in their canoes. Trade is naturally a chief cause of roaming. The fact that in the Polynesian islands it is mainly carried on by the chiefs or on their account can only be favourable to the enterprises, since none but they have either authority or knowledge to lead the greater expeditions. The Tongans, who monopolised the trade between Fiji and Samoa, with the inhabitants of Sikiyana, of Peleliu, and some others, are noted as genuine trading races. Division of labour in trades leads of necessity to exchange. It is specially to be observed that the higher development of any industry, as of pottery in Bilibili, Teste, or Moresby, all of them islands off New Guinea, is always found to improve all the appliances of travel and transport, and thus especially to raise navigation to a higher level. Political disturbances again have created numerous motives for migration. Attacks of one island upon another, flight to remote islands, are common occurrences. At the time of the Spanish conquest the inhabitants of the Mariannc Islands took refuge in the Carolines. Tongans fleeing from a cannibal chief peopled the island of Pylstart or Ata; Kaumualii, when threatened by attack from Kamehameha, had a ship made ready in Kauai, in order that he might fly with his family in time of danger to one of the ocean islands. Lastly, too, hunger was a spur to migration, famines being frequent. Constant contact with the sea has given birth to a spirit of adventure for which the aristocratic constitution of society provides nourishment and tools. The Tongans may well reckon as the Phœnicians of South Polynesia; Samoans and Fijians never ventured upon the journey to Tonga except in boats manned by Tongan seamen. Nor, moreover, are real wandering tribes lacking. Lastly, we must not forget the low value placed upon human life in all island countries with a tendency to over-population. Infanticide, human sacrifices, cannibalism, a permanent state of war, are sufficient explanations of this, and from the same root springs also the love of emigration.



Wooden baler, New Guinea—one-fifth real size. (British Museum.)



Stick chart from the Marshall Islands. (Godeffroy Collection).

Among no "natural" races has the science of seafaring reached so high an average development as among the Polynesians and Melanesians. Most of the tribes are genuine seamen. If we regard their remoteness from the great civilized races of the Asiatic continent, the shipbuilding art stands as high among them as among the Malays; and we must further reflect that they were without iron. Naturally here also local limitations produce inequalities in shipbuilding, as well as in the extent of the voyages, and also in the migrations of the different races. It is a fact that at the present day the Fijians seldom go beyond the boundaries of their own group, while the Tongans, favoured by the wind, often come to them. But the art of navigation, no less than that of shipbuilding, may undergo alterations in the course of time. Fortunate voyages raise the spirit of enterprise, bad luck depresses it. The Samoa group got its former name of the Navigator Islands from the seafaring skill of its inhabitants; this has now greatly decreased. Many of the low islands are so poorly wooded that shipbuilding is rendered difficult, and dependent on drift timber; while at Port Moresby on the New Guinea coast the Motus, having little wood, build as a rule no vessels. They do not, however (like the Caribs in a well-known couplet), content themselves with "wishing they could," but draw upon their more expert neighbours for them. Yet, on the other hand, the islanders of the Paumotu group, where wood is also scarce, build larger and better vessels than the Marquesans. The small area and poverty of their islands force them both to peaceable migrations and to warlike expeditions of conquest, and this can only be done by sea.

Vessels of every description, from the simple raft and the sailing vessel with outrigger, or the double canoe, are found in this region. We do not need to notice the rafts of bamboo made by the Pelew Islanders for the navigation of an inland lake, since opportunities for inland navigation are not usual throughout the region; but rafts are actually in use for coasting purposes. Among the families whom Cook found in Dusky Bay there were no boats, only a single raft made of tree-stems for putting people across. Next we come to boats made simply of stems, which, being fastened together and planked over, become raft-like vessels. Such boat-rafts have led to the erroneous idea that the New Caledonians, for example, sailed the seas on rafts. As a matter of fact these people have only a kind of rough raft, resting on two hollowed tree-stems, and carrying a mast with a triangular mat-sail. The Kunai people have double canoes, and those of very pretty work. The Loyalty Islands' canoes are inferior to these, but are also double, with a platform, two triangular mat-sails, and oars 6 feet long, passing through holes in the platform. A long oar serves for steering, and so they sail to New Caledonia. At Hood Bay in New Guinea rafts are used resting on five trunks; on a single platform these carry as many as a hundred men and quantities of goods. They carry one or two masts, a stone anchor, and a mat-sail.

It is not usual for single trunks to be used exclusively for seafaring; but in coast navigation and fishing they meet local requirements, even where large regularly built vessels exist. We find them in Tahiti, under the name of *buhut* or shells, usually sharp at one end and seldom holding more than two men. But such is the development of boat-building, that the smallest boats are, where necessary, built with great care in several pieces. On Waituhi the Paumotu Islanders have a great number of small boats, put together of coco-palm wood, 16 feet long at most, capable of being carried by two persons and of carrying two

or three; they have pointed pieces specially fixed on fore and aft, an outrigger and two recurved paddles.

The Tahitians build their boats of several pieces, for the very good reason that large timber, such as the Maoris obtain from the Kauri pine, does not grow in their island. In the Society Islands, elegant double canoes, known as "twins," are made by putting together two single stems, which must exactly match. The *kabekel* of the Pelew Islands is a vessel between 60 and 70 feet long, usually hewn out of one large tree-stem, and pulling as many as forty paddles. Its beam and depth are very small for its great length. The entire vessel is merely a hollowed-out keel, supported in the water by the outrigger attached to one side. A kind of deck made of bamboo is arranged amidships, on which the leader takes his place, and the baggage is packed.

These single-tree craft afford the basis also for the larger built ships. The keel of these consists of a stem hollowed out by means of fire, or, in the bigger vessels, of several. Large ships are found chiefly in Fiji, Tonga, Samoa, and New Zealand; and the number of boats is correspondingly large. In Tahiti, Forster saw a fleet of 159 large double canoes and 70 smaller craft. The small ones in many cases travel very fast, and serve as despatch-boats to the larger.

The tree or trees intended for a ship will be felled to the recital of religious sentences, and then hollowed by means of fire. While many of the natives are qualified for this task, the actual building is in the hands of a privileged class; so closely were the interests of state and society once bound up with this art and mystery. Even to the present day in Fiji the carpenters, whose chief work is shipbuilding, form a special caste. They bear the high-sounding title of "the king's craftsmen" and have the privileges of real chiefs. These highly-honoured artisans carry on their trade of shipbuilding with particular care. Planks are attached to the keel, stern and bow provided with carved ornaments, sails and ropes are all finished and fitted by special workmen, and the outriggers prepared by others. Everything is done according to old tradition; the laying of the keel, the finishing of the whole, the launching, all take place with religious ceremonies and festivities. Tangaroa was the patron of shipmen, and they bore his worship all over the Ocean. Even the gods themselves like to build ships, and undertake daring voyages.

The Fijian ships long held the first place among the craft of the Pacific islands. When Cook first visited Tonga in 1772, he found Fijians there who had brought a Tongan of high rank to his own island in their ship. The Tongan vessels at that time were clumsy compared with those of Fiji, and for that reason they accepted this with its sails as a gift. They have only altered the Fijian model to the extent of cleverly improving the accuracy and fineness with which various portions are executed. These Fijian vessels with Tongan improvements belong to a type spread throughout Micronesia, in which, by reversing the sail, bow and stern are convertible. Thus Fijian chiefs took to employing by preference carpenters from Tonga; which gave rise to the belief that the Tongans built their vessels in Fiji for the sake of the better wood. The New Caledonian ships are like the Samoan, but less well built and slower. The vessels of the Loyalty Islands are also clumsy; a fact the more remarkable since both these groups contain admirable material in their great pines. In the Solomon Islands shipbuilding has attained a high level, but here too there are gradations. The

most elegant and the lightest craft in that archipelago are built in Ulakua. In the more westerly islands the war-vessels are extraordinarily rich with fantastic ornaments, festoons of feathers and bast, coloured red and yellow, shells, and so forth. In New Ireland the boats differ materially from those of New Hanover; they are equally made of a single tree stem, but are not so long and not curved in the gunwale. The boat of New Britain is mostly made from one stem, but has often a low strake on each side. It is on the average larger than that of New Ireland, and has a high narrow beak at each end.

The larger boats of New Guinea are from 16 to 20 feet long, and from 2 to $2\frac{1}{2}$ wide. The hull, made in one piece, is hollowed out from a trunk which must have no flaw. It is not more than half an inch thick, and has cross-ties to keep it from warping. Both ends curve upwards and are strengthened with wooden posts, of which that in the stem rises high and is adorned with arabesques or painted. To raise the gunwale above the water line they employ the ribs of sago-palm leaves after the fashion of the Alfurs. These are by preference interlaced, and then being attached like tiles to the cross-ties, form a water-tight surface. Over the gunwale are fastened two light cross-pieces, which project about 5 feet, and at the end of which is another piece of wood, bent at right angles, just touching the surface of the water, and sticking into a strong boom, which is as light as cork and serves as a float. Amidships on the cross-timbers a square cabin of bamboo is erected, sheltered against injury from weather by a small roof of coco-palm leaves. All other kinds of craft, from the raft upward, are found in New Guinea. The ornamentation is rich, especially of the war-canoes.

In Micronesia, where the vessels stand next in quality to those of Fiji and Tonga, we do not find the double canoes common among the Polynesians. Even the great war-*amlais*, holding sixty to eighty persons, have only an outrigger. Differences can be noticed between one island and another. The Pelew canoes differ from all those in use in the South Seas by being very low in proportion to their length and sail-area. For this reason they are not adapted for such long voyages as the inhabitants of Yap, or those of Mackenzie and the Ralick Islands, undertake, but for short journeys they are extraordinarily effective. The light and sharp *kaep*, driven by a large three-cornered sail, slips over the water like lightning in the most gentle breeze. Heavy seas find no resistance in these canoes, they lift them and divide on the sharp angle of their stems, and do not check their way. The Micronesian fashion of adorning boats with bundles of the split feathers of the frigate-bird, and avoiding carved work, comes from Polynesia.

An important element of the Polynesian or Melanesian vessel is the outrigger. This is shaped and fitted on in various ways, and is of various sizes. Light durable woods are used for this purpose; in the eastern districts mostly *Pisonia*, which, even in the Paumotu Group, reaches a height of 65 feet, while in the west it is generally *Hibiscus*, as light as cork, or an *Erythrina*. As a rule the outrigger is fastened to the vessel by two booms 5 to 6 feet in length, the forward one straight and stiff, the after one bent and elastic. Among the Fijians many kinds of craft are distinguished solely according to their outriggers.

The sail—there is never more than one—is three-cornered, composed of plaited mats, or woven from the bast of the leaf-stem of the coco-palm, bent on a frame of bamboos, and attached to the mast by a rope passing over or around the mast-head. It cannot be reefed. As an article of trade it is in demand

proportioned to its importance. In large vessels the steering oar is 20 feet long, the blade over 6 feet, requiring two or three men to handle it in a heavy sea. The ordinary paddles are frequently the least practical part of the gear. The blade is lancet-shaped, often decorated at the pointed end, carved about the handle with figures of animals or other ornaments. Fancy paddles are inlaid with mother-of-pearl. Where they are as strong as in the Solomon Islands, they can be used on occasion for clubs. Even the balers, with their often elegantly carved forms, show the value which is attached to the humblest nautical implements. The balers of the Admiralty Islands, with their single horizontal bar for a handle, were placed by Rear-Admiral Strauch, from a practical point of view, above those made in Europe. Preserves, capable of keeping for a long time, are prepared for voyages from *pandanus* and bread-fruit; cocoa-nuts also serve as provision, and their shells can be filled with water. In the large war boats the number of rowers far exceeds 100. Forster speaks of 144 oarsmen, Wilson of 300 men in a single boat. The time of the paddles is given by singing. When a number of boats are sailing together, one man stands in the stern of the leading vessel and signals the course with a bunch of dry grass.

Boat of the Luzon Tagals. (From a model in Dr. Hans Meyer's Collection, Leipzig.)

The taking of proper bearings is of double importance in this ocean, in which the individual islands are often so far apart and so low-lying that one is astonished that they were ever found. Many islands in the Pacific were discovered for the first time in the present century. The islanders are keen observers of the stars, and have names for a good list of them. They distinguish eight quarters of the heaven and winds to match. In their conception of the world the ocean is imagined as being everywhere full of islands, which helps to explain their daring voyages. They even inscribe their geographical knowledge upon maps, but while on these the bearings are to some extent correct, the distances are given very inaccurately. In the Ralick group the preparation of maps from small straight and bent sticks, representing routes, currents, and islands, is a secret art among the chiefs. The Marshall Islanders also possess a map of their own, made

up of little sticks and stones, showing the whole group (p. 165). On their greater enterprises they go to sea in a thoroughly systematic way; the longer voyages of from 500 to 1000 nautical miles are undertaken only in squadrons comprising at least fifteen canoes, commanded by a chief who has one or more pilots to advise him. Without compass, chart, or lead, and with but limited knowledge of the stars, these men contrived to make their distant point. On their voyages they steadily observe the angle made by the canoe with the run of the sea caused by the trade wind, which, north of the equator, blows steadily from the north-east. The use of this run, which remains constant even with shifting winds, has been brought by the native pilots to great refinement. The ocean currents are also no less well known to them by experience, so that they are able to take this also into consideration in laying their course. As a general rule, in order to get the largest possible field of view, the squadron proceeds in line in which the individual canoes are so widely separated that they can only communicate by signal. By this progress on a wide front they avoid the danger of sailing past the island they are looking for. During the night the squadron closes in. This whole style of navigation contradicts the supposition that before the invention of the compass only coasting voyages were undertaken.

Sumatran *prahu*. (From model in the Munich Ethnographical Museum.)

Polynesians and Micronesians often ship on board European vessels, where they prove themselves, apart from their limited physical strength, excellent seamen. The Hawaiians or Kanakas, who are often tried in the whale fishery, are, according to Wilkes, skilful men, but not suited for service on board a man-of-war. They are more serviceable in small than in large parties, being very fond of putting their work upon some one else. They are timid about going aloft. Their best place is at the oar, but even so, when going through the surf, they prefer to jump overboard and swim. On board a man-of-war they find difficulty in accustoming themselves to the word of command, but, on the other hand, in whaling ships they show themselves willing, hard-working, and fearless.

In the eastern districts the navigation of the Malays connects itself with that of the Micronesians. Their distant expeditions for purposes of trade or piracy, which ultimately became racial migrations, were carried on in outrigged or double boats with triangular reed or mat sails, and to this very day many of the Malayan

prahus of recognised excellence have not an ounce of iron about them. Inland races in Malacca, in Borneo, Luzon, and other islands, have no vessels at all, and there are some fishing tribes who get along with bamboo rafts (so-called catamarans) after the Chinese model, and dug-out canoes. The races who have been most operative in the history of this widespread group, whether they be genuine Malays or Alfurs, Tagals or Goramese, are distinguished by their intimate acquaintance with the sea, to which in great measure they owe their conspicuous position. These are the races of whom it has been said that they would never build a house on dry land if they could find a place in the water. Their skill in navigation is sufficient to meet even European requirements. The *prahus* belonging to the once piratical village of Sounsang in Sumatra on the Palembang coast, carried the post between Palembang and Muntok for years, across the tempestuous Banca Straits; and never within the memory of man were these light vessels seriously behind time. The Government of the Dutch Indies employ none but natives, mostly pure Malays, on board their large fleet of *prahu*-cruisers; though there are many Chinese and Arabs among the freighters. The Malayan *prahu* was originally a somewhat shallow boat with one sail, and having a keel. The most renowned shipbuilders are the Kè islanders, whose boats, built of wood fastened with wooden bolts and rattan, sail through the whole New Guinea Archipelago to Singapore; and next to them the Badjos and Bugises of South Celebes, and the Malays of Billiton, Palembang, and Acheen. The Malagasies must have lost much of the art of shipbuilding, though they once suffered it to reach their island. Their usual boat is a "dug-out" with round bottom and no keel, provided with outriggers when at sea—the Hova boats have no outriggers—carrying large square or lateen sails made of mats of palm-straw, or of cloth. In another kind of boat the floor consists of one hewn tree-stem, upon which the slim craft, most elegant in form, is built up with strakes hardly more than an inch wide. The sharp beak runs out in a kind of neck, raised high, and adorned with peculiar carvings; while the vessel tapers aft to a narrow stern, also elevated and similarly ornamented. These boats also have outriggers, are 20 to 30 feet long, and hardly 3 feet wide.

Their active sea-traffic is one of the most interesting features in the life of the Malays. It is no mere coasting-trade that is carried on by some expert navigators among the races of the Archipelago, notably the true Malays of Sumatra and the Malay Peninsula, and the colonists from thence in Borneo and other islands. They are not afraid of competition with the Chinese, whom they have obviously taken for their model, formidable as these are in trade; they act mostly as clever middlemen to them, pushing into the interior of the islands, where they are preferred by the native authorities, and also reaching farther eastward than the Chinese. They make use, moreover, of European communications. Piracy has never succeeded in paralysing this native traffic, which indeed has known how to come to terms with it; nor, although not a year passes without some *prahu* from Goram being fallen upon by the inhospitable Papuans of New Guinea, does this injure it either, any more than it hinders the people of Tidor from visiting those coasts, abounding in slaves and trepang, with whole fleets. Entire populations have been, as it were, rendered fluid by means of trade—above all the Malays of Sumatran origin, proverbially clever, keen, omnipresent; and the equally smart but treacherous Bugises of Celebes, who are

to be found in every spot from Singapore to New Guinea, and have recently immigrated in large numbers into Borneo at the instance of local chiefs. So great is their influence that they are allowed to govern themselves according to their own laws; and they are so conscious of their own strength that there has been no lack of attempts to make themselves independent. The Acheenese once held a similar position. After the decline of Malacca, which the Sumatran Malays had made an emporium, there were, at the beginning of the seventeenth century, several decades during the turning period of the world's history when Acheen was the busiest roadstead of the far east.

All things being taken together, the capabilities of the Malayo-Polynesians as navigators are pre-eminent. It is only because this estimate of them has not always been taken that their distribution assumed the look of a riddle, though in fact it was no riddle whatsoever.

With the dispersion of the Polynesian races over the islands of the ocean, first through storms and currents, then by voluntary migration, was associated in later times the traffic in men, called into existence by the growing demand for labour in regions of economic progress, like Hawaii, Samoa, or Queensland. In its beginnings it was indistinguishable from kidnapping. Men and boys were dragged from their homes by force, or decoyed by false representations, and carried to districts where they had never wanted to be. The regulations framed later by various governments remained for the most part ineffective for want of officials to look after them. Even when the planters were compelled to send their Kanakas back at the end of three years, captains often landed them, for their own convenience, on some island where the poor creatures had never lived, and where they were ill-treated and often killed by the inhabitants. Since the arrival of Europeans, too, the decrease of the population has caused shiftings in most islands. Immigrants from a wide area, extending from New Zealand to the Marquesas, have come to Hawaii. On the other hand Hawaii is one of the groups whence native missionaries have propagated Christianity far into the Melanesian region.

In the world of Polynesian mythology and legend we constantly come across migrations undertaken from the most various motives. Everything important or peculiar has been brought over sea; the wide horizon of the ocean, no less than the narrow one of the island-world, gleams with a divine light upon these migration-legends; remoter islands are half-way stations between this world and the next. To quote Bastian: "Once upon a time, after a long voyage, a ship was cast away upon a strange coast. It looked very strange to the new-comers, offering the appearance of an uncanny spectre-land: for they walked through trees and houses without feeling them. A figure met them and told them that they were in the realm of spirits. They followed his injunction to return home at once, and were driven along quickly by a favouring wind. But they had only time to relate how they had gone astray before they departed this life. Since then that deadly coast has been avoided." On Raiatea it was told of Tangaroa that after peopling the world he changed himself into a canoe, which, after bringing men along, and preparing the red of the sky from their blood, furnished the model for the temple. Assistance in the erection of the islands was rendered by casual comers, which would give them an additional ground for a title to it. When Savage Island was raised out of the sea, two men who swam over from

Tonga put it in order ; and the steepness of its coast on one side is ascribed to the carelessness of the one who worked there. Others think that these helpers stamped the islands out of the sea. The Hawaiian account is simpler : When Hawaii had been hatched from the sea-bird's egg, some people came from Tahiti, a man and his wife, with a dog, a pig, and a hen in their canoe. Ulu introduced the bread-fruit which is named after him, and his brother the cloth made from the bast of the mulberry tree. The gods, who were originally the sole inhabitants of these islands, were approached to obtain leave to settle. The mother-country, "Hawaiki," soon came to be regarded as a land of the other world—a spirit-land ; what descended from it was hallowed. Tamatekapua, the son of the Clouds, brought Rongomai to New Zealand as its tutelary god from the spirit-land ; and there, too, was preserved the stone idol brought from Hawaiki, Matua-Tonga, the son of the south, as the Kumaras' god. If we find tradition bringing white priests and their gods to Hawaii, we are led to see other relations, namely with the west, the direction of them being indicated by the casting away on these shores of people from Eastern Asia.

Traditions are not kept alive by memory only. Political and social relations follow to this day the lines of old connections which link together island groups far distant from each other. Legends of migration survive in individual villages and families, where the old home is still remembered, and the connection with it often bound closer by special reverence. The Tongans were long in the habit of respectfully greeting the people of Tokelau, as being their ancestors. Men from Ulie in the Carolines, who visited the island of Guam in the Mariannes in 1788, followed the roads from old descriptions preserved in songs ; since then the intercourse has become brisker, and at the present day the Caroline islanders collect coco-nuts in the Mariannes on behalf of foreign traders. Political connection, again, is often bound up with objects that have been either left behind or brought along. The Uluthi Islands are subject to Yap, because a great destruction, by means of an inundation of the sea, would take place if an axe belonging to one of the gods, which is buried in the latter island, were to be dug up. When these lines of attraction or attachment intersect, quarrels cannot be far off. Thus the Samoans relate that one of their chiefs fished up Rotuma and planted coco-palm on it. But in a later migration the chief Tukunua came that way with a canoe full of men and quarrelled with him about the prior right of possession. The Maoris found another ground for quarrelling : having come from little islands where land was scarce, every man laid claim to estates in New Zealand that were too large.

The scantiness of migration legends in Melanesia has been regarded as only a part of the general dearth of tradition which is a Melanesian characteristic. Fiji offers us unwonted examples of legends of inland migrations, directed from the north-west towards the south-east, which in still later times was uninhabited. No doubt this bears upon the fact that the home of souls lies across the sea, and that all the spots whence souls go, that is swim, to the next world, face north-west.

If, out of all these innumerable wanderings to and fro to which various causes have given rise, one group stands out by reason of the great extent of its ethnographic operation—that, namely, which has occupied the region between New Zealand and Hawaii, Fiji and Easter Island, with a strikingly homogeneous population—that is but part of the result of the great migratory movement in

the Pacific. It is quite wrong to regard this as a single event, or as an exception. It is rather one case of the rule ; for none of these races was ever at rest. They wandered far and near, colonising consciously and intentionally, like any Greeks or Phœnicians. In any case this last series of great migrations and settlements is a single existing fact belonging to that stage in the development of culture which we call the stone age. For that reason it is not easy to understand ; we have no means of comparison with similar achievements. The area which this colonising activity has rendered productive far exceeds the empire of Alexander or of Rome. In the domain of annexation it was the greatest performance previous to the discovery of America.

It was with astonishment that the close connection of the languages of Oceania was first recognised. Just as little could the general ethnographical similarity be overlooked ; the only difficulty was to find therein a scale of affinity, still more of remoteness, in point of time. There can be no doubt that from New Guinea to Easter Island we are in presence of essentially one civilization. A special branch of it has developed in the narrower region of Polynesia. The elements of this civilization are distributed over the islands with little uniformity. We cannot ignore the possibility that closer affinities are indicated by the distribution of particular articles, but hitherto the right way to identify them has hardly been taken, least of all by those who imagine they see in New Zealand the point whence Polynesian migrations had set out. For the distribution of certain weapons upon which this hypothesis rests in the first instance is everywhere so uneven and capricious that conclusions of very wide import cannot be based upon it. That the home of the Maui myth appears to be in New Zealand ; that the title *Ariki* is here applied to priests, but in the rest of Polynesia to temporal chiefs ; and that New Zealand alone can be the home of the articles made of jade which are scattered throughout Polynesia, none of these are facts from which we can draw the important conclusion that New Zealand was the point of dispersion.

It is solely upon the basis of the traditions that the view of the great majority of students is at present to the effect that not only the New Zealanders but also other Polynesians migrated to their present abodes from some southerly point in equatorial Polynesia. The Maori tradition is that they came to their island from a place called Hawaiki ; they seem to distinguish a larger and smaller, or a nearer and further Hawaiki. "The seed of our coming is from Hawaiki, the seed of our nourishing, the seed of mankind." This name, Hawaiki, is cognate with a whole number of Polynesian place names: Savaii in the Samoa group, Hawaii in the group of that name, Apai in the Tonga Islands, Evava in the Marquesas and others. Savaii, one of the Samoa or Navigator Islands, has the greatest probability on its side. As Hawaii it forms also the starting-point for emigration to Raiatea and Tahiti, while the legends of the Marquesas and Hawaii refer back to Tahiti. There is a song in which Rarotonga, Wacrota, Waeroti, Parima, and Manono are mentioned as neighbouring islands to Tahiti. The Rarotongans themselves have the tradition that they come from Awaiki. Wacrota and Waeroti are now unknown, but Parima and Manono are small islets of the Samoan group, the inhabitants of which say they came from Savaii. Wild dogs like those of New Zealand, the same kind of rats, the sweet potato, the *taro*, the same kind of gourd, are found in the Navigator Islands. Maori traditions again which call

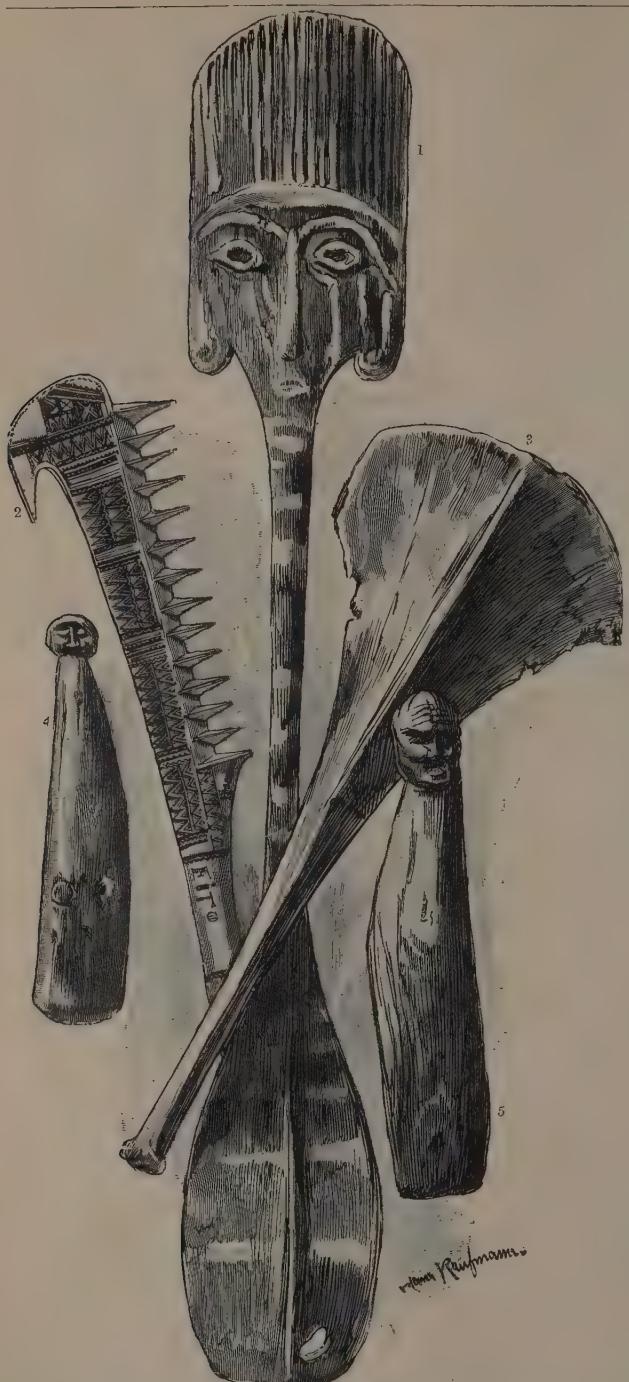
Rarotonga the way to Hawaiki, and say that some of the New Zealand boats were built in Rarotonga, are equally in favour of the journey having been made first from the somewhat mythical Hawaiki to that island which no doubt is the "nearer Hawaiki" of tradition. It is possible that the larger part of the Maoris are of Rarotongan origin.

The songs of the New Zealanders tell us even now the reason for their emigration and their farther wandering. A chief by the name of Ngahue was driven to flight by a civil war which devastated Hawaiki. After a long journey he reached New Zealand and returned to Hawaiki with pieces of greenstone and the bones of a giant-bird. Other legends give him the name Kupé—the weaker party in the war that was still going on among the islanders migrated to New Zealand with him. The tradition still preserves the names of the double canoes in which the voyage was accomplished. The legend still recalls how the seeds of sweet potatoes, *taro*, gourds, *karaka* berries, dogs, parrots, and rats, and sacred

Carved boat from New Zealand; actual length 8 ft. 2 in. (Berlin Museum of Ethnology.)

red paint were put on board the canoes, and how, as the emigrant's fleet departed, an old chief exhorted to peace. Nor is the storm forgotten which got up in the night and scattered the fleet, nor the doubt whether they should steer east or west, nor the little quarrels which arose among the crews of individual canoes chiefly on account of the women. The canoes were repaired on islands as they went along. Finally, what was left of the wanderers reached New Zealand in the summer time, and even before the chiefs had decided on the place to land, certain families landed where pleasant bays smiled upon them, all in the North Island. It was not till later that the Middle and South Islands received their population. Even to this day the north is called the Lower and the south the Upper Island. The various tribal groups trace their origin to their canoes, the names of which they have preserved, and equally the names of the chiefs and the exact spot where the canoe landed. One canoe sailed round the North Cape, another made its way through Cook's Straits; these two brought the first settlers to the west coast. Wharekauri or Chatham Island, some sixty nautical miles distant from New Zealand, must have been peopled at the same time.

A second starting-point is indicated by tradition in the Tonga or Friendly Islands. The inhabitants of Nukahiva in the Marquesas make their forefathers come with bread-fruit and sugar-cane from Vavau in the Tonga Archipelago. But among the inhabitants of the southern part of that archipelago the Hawaiki legend appears again, although language and customs rather point to Tahiti. In this connection we may remember that in Raiatea also there was once a locality



(1) God of dances in the form of a double paddle, Easter Island; (2) toothed club from Tutuila; (3) ancient club from Tonga; (4, 5) short clubs from Easter Island. (Berlin Museum of Ethnology.)

designated Hawaii. The Hawaii or Sandwich Islands offer the same difficulty. Language and customs connect their inhabitants with Tahiti to which, as also to the Marquesas, Hawaiian travel myths point. On the other hand, place names show a lively recollection of the Samoa group. Tahiti seems to have sent forth emigrants to Hawaii, Nukahiva, Rarotonga; yet the explicit tradition of the Rarotongans makes their island to have been settled almost simultaneously from Samoa and Tahiti. But then from Rarotonga again came the colonists for the Gambier and Austral Islands, with Rapa, and also a part of those who made the great journey to New Zealand.

We feel some scruple about making the name Hawaiki indicate one single island of a small archipelago. Streams of emigration are supposed to have poured forth from it, at the most various epochs, to Hawaii as well as to New Zealand, to Tahiti no less than to Tonga. Why just that one and that only? No doubt the name possesses a general, and like other place-names, a mythical significance, wherewith many of the attributes of the legend

can more easily be combined than with that somewhat forced geographical interpretation. We are from the first warned to be cautious by the fact that this legend of Hawaiki is one of the few legends related by a race about its own origin, which science has nevertheless thoroughly accepted. At all times we are strongly averse to such traditions, since they are never free from mythical elements. The geographical position of Hawaiki is not absolutely certain in all traditions; but rather shows a considerable fluctuation. It even turns up as a spirit land, as the land of the West, where the souls go with the sun into the under world, as the land of souls, and so as the land of forefathers, the ancestral land. We can now understand the belief of the Marquesans that their entire country once lay in this Hawaiki, and came up from it. Similarly it is the land where mankind once lost their immortality, and from spirits became men. Numerous place-names show that a name may recur widely without actual transmission. Lastly, the fluctuations in individual traditions must not be overlooked. If a Tahitian origin is universally assumed by the Hawaiians, traditions also point to the Marquesas and Samoa, and from the Marquesas the threads lead back to Tahiti, Samoa, and even Tonga. The old Hawaiians seem by "Tahiti" to have understood strangers in general. The Maori[1] legends also testify that not one immigration only, but several, took place from the northward. A much later arrival is emphasised in all the legends. We know therefore why those wanderers are alleged to have found in these islands aboriginal inhabitants, of whom the geological record of New Zealand, and its fossils, have so far revealed no trace. At any rate, the fact, still contested, that the dog occurs not as the companion of man, but as a beast of prey, points to another civilization than that which met the first Europeans who visited the Maoris. The legend of the various immigrations also takes various forms. In New Zealand the new comers find footmarks, which they recognise as those of one of their companions who had been thrown out of his boat. One legend speaks of fair natives, and of the rise

Thakombau, the last king of Fiji. (From a photograph in the possession of Herr Max Buchner.)

[1] *Maori* "native" in opposition to *Pakeha* "stranger" occurs in the same sense in other parts of Polynesia, with the forms *Maoi* and *Maoli*.

of a darker stock through mixture with older inhabitants; likewise of men who lived on these islands "after the great monster," and who left great shell heaps behind them. We reach quite mythical ground with the Pua-Reingas, who lived underground and could not be conquered till a chief made a hole in the earth by which the sunbeams entered. Less frequently, for instance in Rarotonga Mangarewa, the Kingsmill or Austral groups, the legend is decided as to their being uninhabited.

The epochs of the Polynesian migrations must have been very various. They took place so long as there were any Polynesians in the Pacific. In the case of the colonisation of Rarotonga, tradition demands thirty generations, in that of the Maoris fifteen to twenty. On Nukahiva indeed we hear of eighty-eight generations and there are sixty-seven ancestors of Kamehameha; but to these figures no credit can be given. We are entitled, however, to assign no great antiquity to Polynesian colonisation. The people have not had time to develop any marked peculiarities in culture. The date of their arrival in New Zealand and the other places of immigration can only be a matter of some centuries back. The settlement of Tahiti no doubt falls earlier. Many isolated casual migrations may have preceded the greater deliberate movements. But in any case we must clearly grasp the fact that there was a period during which the sending forth of colonies was enjoined by the increase in population, and was rendered possible by the political organisation. In the newly occupied territories too, the development of the new populations began upon a higher level, and then fell off; upon the remoter islands like New Zealand, Hawaii, Easter Island, where disturbing influence pressed upon them less, they retained the most traces of a past higher condition. The decadence of the Maoris affords a conspicuous instance of a rapid impoverishment in the advantages of culture. The larger states split up into small communities on a mutual footing of feud and extermination, having lost the consciousness of a stronger cohesion, with its power to maintain culture. The character of the people lost in demeanour and discipline, becoming ever more savage and cruel. Hand in hand with this went belief in their old native gods, and the transformation of these into demons of the forest and the sea, cruel spectral caricatures distorted at pleasure. A superstitious cult of the individual took the place of the state or national religion. They went back even in the arts; even in Cook's time works of former generations were preserved as sacred objects, which they had lost the knowledge and the capacity to produce.

These migrations were not confined within the limits of Polynesia. Colonies went forth into all the Melanesian groups; where we obtain a general impression of a permeation with Polynesian elements from the eastward. On the small islands they hold their ground; on the larger they were merged in the mass of the resident population, but not without leaving their traces. Ethnographical varieties become clear, if we remember that one or the other element has been the bearer of them. Thus in the territory of the New Hebrides and Solomon Islands, where "mother-right" prevails, Polynesian colonists have brought in "father-right"; in this case a revolutionary institution. Echoes of New Zealand meet us in the visible speech of New Caledonian architecture, in the clubs of Eastern New Guinea, and in other cases. In Micronesia, Polynesian affinities are yet more frequent. There many customs remind us with especial force of the western Polynesians and at the same time of the Fijians. Not only, however, have

Polynesians made their way to Melanesia, but we have historical proof of Melanesian colonies in Polynesia.

Nothing indicates more clearly the frequency and extent of these migrations than the very small number of totally uninhabited islands. These vikings of the Pacific contrived to discover even small and remote islets. In the whole of the Pacific there is not one island of any size of which it was left to Europeans to demonstrate the habitability. Many of them were only visited periodically for their palms or the fishing; but these were in all cases certain to be less well suited than the others for habitation. Of the little islets which rise from a common base in a reef, and lie almost flush with the sea, forming an atoll, often only one in a group, the largest or most productive, is inhabited. Indubitable traces of former habitation show that the uninhabited regions did not extend beyond their present boundaries. These are proved to lie in those central Pacific Sporades which hold so important a place between the groups of Eastern Polynesia and Hawaii, such as the Guano Islands of the Central Pacific, the Penrhyn group, the most south-easterly islets of the Paumotu group, and others. Norfolk Island is the only one in the Southern Pacific which can be pointed out as having from its natural conditions and endowments deserved to be permanently settled; but in the angle it makes with Australia and Polynesia, it lies far from all migrations, and it has an area of not more than 18 square miles.

Local arrangement breaks up the wide district into geographical groups distinguished by ethnographic characteristics: Melanesia is contiguous to New Guinea; north of it, separated by a band poor in islands, we find Micronesia over against the Moluccas and Philippines to the eastward. Polynesia joins on in the form of a great triangular space outflanking the eastern side of the two districts already named both to south and to north, and is divided by a tract of sea with few islands into a western group of Tonga, Samoa, and Tokelau with Fiji, and a more extended eastern group reaching from Hawaii to New Zealand.[1]

In view of the many internal differences in the populations, and considering the distinction, great but difficult, of accurate demarcation between Polynesians and Melanesians, there is little purpose in dividing off smaller groups by physical characteristics. These can at most be suggested. It is just possible that a sharper racial distinction between west and east Polynesians may be emphasised. According to Finsch, among all the Polynesians the Hawaiians have the greatest similarity with the Samoans. The Maoris are next most closely connected; this nearer relationship is confirmed by the language. This seems to be a similar phenomenon to that of the deepening of the lighter skin tint of the Malays into a darker as we go eastward. Confining ourselves to tangible objects, we will now make an attempt to divide the area of Polynesian culture into smaller districts. In this, as might be expected, the large influential groups of Samoa and Tonga show an affinity with the neighbouring Fiji. This strikes us most clearly in our ethnographical museums by the abundance and variety of the wonderfully carved clubs. Tonga shows linguistic peculiarities, shares with Fiji in respect of bows and pottery, and builds its vessels differently from Samoa. In the Harvey Islands to the eastward, the art of carving has been absorbed in the preparation of hatchets with pretty handles rich in symbolic forms. The Society Isles show

[1] [I leave this as in the original, though it appears from the map that a line drawn from Hawaii to New Zealand passes through the Tonga group.]

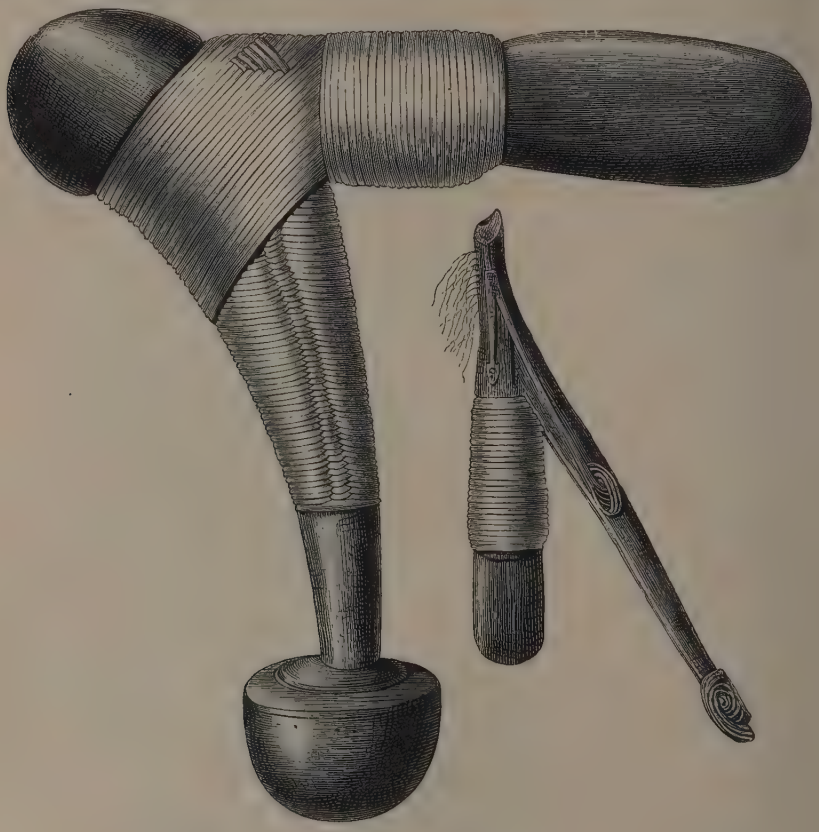
agreement with Hawaii in their feather work and axes. In the Marquesas, oars as well as axes and dancing stilts are carved with conventional ornaments, each of which has its name and its significance, reminding us somewhat of the Easter Islanders' writing. The Hawaii or Sandwich Islands are distinguished by fine feather masks and helmets, and have weapons with wooden handles, set with sharks' teeth like knives. These, however, find their richest development in the Gilbert or Kingsmill Island. New Zealand, which has the most peculiar climate of any region inhabited by Polynesians, is the culminating point and the horn of plenty in regard to art development in Oceania. Its favourite manufacture is small hand clubs, called *mere*, made like many ornamental objects from jade. Also richly carved sticks, objects in greenstone, symbols of rank in the shape of oars, ships, pillars for houses. But on the whole it preserves agreement with the rest of Polynesia. One might conclude that its settlement did not take place till late, but that from the remoteness of these islands a tranquil development resulted with the maintenance of many old notions of form. If the Maori dialect is in many respects richer and more primitive than other Polynesian dialects, this may be ascribed to the more plentiful contact of the tribes over wider spaces. The most unique existence is that of Easter Island. It represents among the islands what the naturalist would call a "sport." No part of the earth shows the power of isolation with more impressive clearness than this little spot of some 50 square miles. The most trustworthy descriptions draw attention to the departure of the Easter Islanders from the pure Polynesian type. Darker coloured skin and small eyes point perhaps to an admixture of Melanesian blood. In a population which by the highest estimate reached 3000, and before the days of small-pox and kidnapping were reckoned by the first French missionary at not more than 1500, even small admixtures would be of importance. But these peculiarities, not very significant under any circumstances, disappear when we look at the special ethnographical points, positive as well as negative. Above all other Polynesians the Easter Islanders possess the art of pottery; also an obsolete writing, the power of executing human figures in wood-carving, and of making gigantic stone images; they also build stone huts. But on the other hand they have not the more artistic forms of axe, bow, and spear.

Locally and ethnographically the Micronesians stand next to the Malay Archipelago and East Asia; from a physical point of view they display many of the Mongoloid marks with especial clearness. In their ethnographic relations they seem to be a race which has come down from a higher stage. In social and political institutions—in their money, their looms, their navigation—they show traces of a richer development of the external life. But a further motive must be sought in the less secluded character of the entire Micronesian development, upon which the neighbourhood of Asia has worked both advantageously and disturbingly. Many objects are indistinguishably like those of particular Malayan localities; thus the spears of the Carolines resemble those of central Celebes. Polynesian influences predominate especially in the Gilbert Islands; tattooing instruments agree exactly. The agreements between Melanesia and Micronesia lie in a mass of small details; the young people of Astrolabe Bay wear, besides the comb in their hair, little sticks bound with grass and adorned with cock's feathers, repeating the curious head ornament of the Ruk Islanders. The loom of Santa Cruz, unique in the Melanesian region, is closely akin to that of the Carolines.

Within the region of the darker races the contrasts are naturally sharper. In every archipelago, and in New Guinea, lighter and darker groups may be distinguished. The Papuas of New Guinea west of Humboldt Bay, are on the average darker than those to the eastward; in the western portion we no longer meet with light-skinned, straight-haired people, who might be taken for Polynesians. Ethnographical characteristics point partly to the more easterly islands of the Sunda group; the short bows of bamboo strung with fibres, or the stone clubs and the armour. Of smaller, quite special characteristics, we may note the arrows, exactly like those of Ceram. The more warlike and enterprising tribes dwell in East New Guinea; they are far superior to the natives of the interior, the stupid Dorese, and the good-tempered, cunning Papuas of the south-west coast. This character extends to the inhabitants of the neighbouring islands to east and north. Between the Bismarck and Solomon Islanders, too, there is a great agreement in character; they are strong, coarse, warlike, but at the same time capable of work and receptive of education. In some distinctive details, such as the use of coloured bast and grass for ornament, the Solomon Islanders agree with New Guinea. The Trobriand, D'Entrecasteaux, and other islands southward to Teste form, with eastermost New Guinea, one ethnographical province. Here we begin to find a higher proportion than in New Guinea of population partly straight-haired and fair-skinned, with such specific features as the loin-cloth made from the *pandanus*-leaf, the working of small disks of red *spondylus*-shell for ornament, the peculiar mode of inserting the axe-head, navigation highly advanced, and cannibalism. Some of these characteristics

Rattan cuirass, throwing-sticks of dark wood, and bark belt, from Kaiser Wilhelm's Land. (Berlin Museum.)

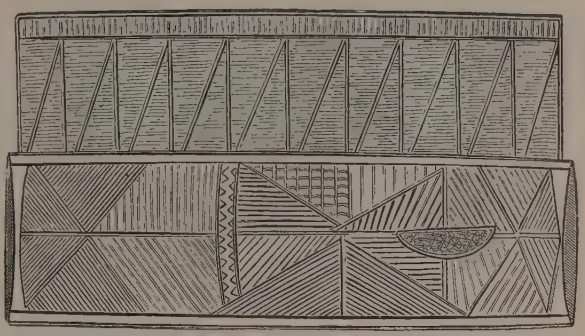
mark the transition from East New Guinea to the more westerly regions. Alike in New Guinea and the next islands to the eastward there has been developed a style in which the human countenance is rendered by means of two straight lines, one at right angles to the other, to indicate the nose and lower rim of the forehead, a corresponding line giving the mouth. The effect of boredom produced by this physiognomy has been noted as being the effort to portray the



Axes from the D'Entrecasteaux Islands—one-eighth real size. (Christy Collection.)

bored Englishman; but it also reminds us of the "tortoise-shell style" of the Torres Islands, where it is made necessary by the material. In the case of the Admiralty Islanders, holding as they do an intermediate position among the rest of the Melanesians, it is interesting to note that their peculiarities are negative. Except the spear they have no weapons; lacking bow and arrow, throwing-stick, sling, and axe. Bow and arrow are wanting also among other Melanesians, and the Australians; but the latter have other weapons, in some cases in remarkable abundance and variety. In the poverty of the islanders of whom we are speaking one might be inclined to see an effect of their isolation, an evidence of limited intercourse. But many other characteristics point to closer affinities, in one or another direction, with the inhabitants of Humboldt Bay, the Solomon Islands, or New Hanover.

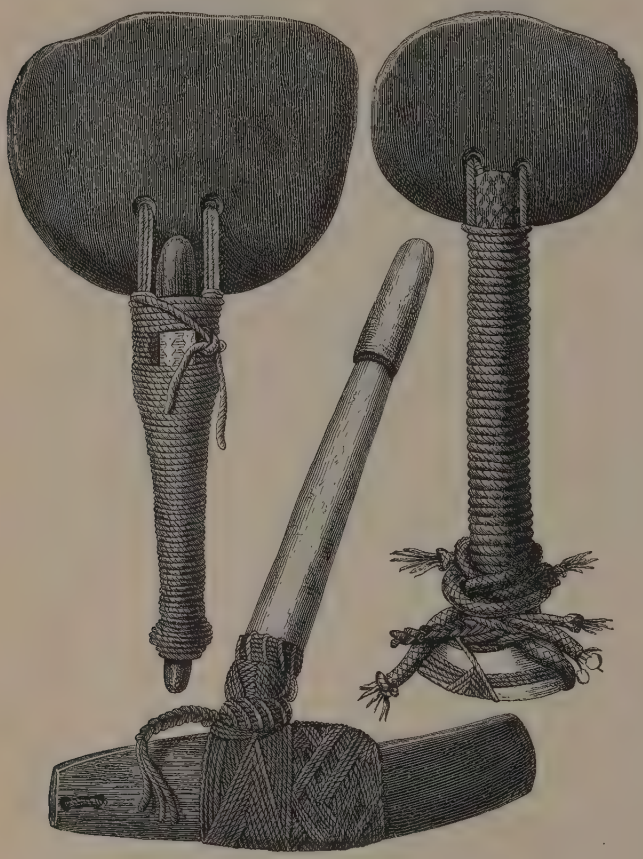
The more easterly islands of Melanesia show, as in Fiji and the New Hebrides, the largest proportion of Polynesian influences. Fiji indeed cannot be understood apart from Tonga; Fiji is "upper," Tonga "lower." The relations between these two groups are most intimate. Physically the Fijians must be regarded as hybrids between the Mongoloid and the Negroid; etymologically the Tongan is of all Polynesian dialects the nearest to the Fijian. In style the productions of Fiji bear the closest resemblance to those of Samoa. But the broad paddles of New Hanover, with strong middle rib, also remind us vividly of this group. New Caledonia and the Loyalty Islands form a district by themselves. The inhabitants of the former island are more pronounced negroids than those of the latter, where, indeed, Mare contains a Polynesian colony, self-founded; but in both Polynesian influences are clearly apparent. Deducting the effects of the soil and the unfavourable climate, there still remain many peculiarities corresponding to the secluded position. Among these are the circular huts, the peculiar shape of spears and clubs, the absence of the bow, the use of the pretty brown bat's fur for all kinds of adornments. Special to New Caledonia are the binding of the grip of a weapon with string, or cloth, the attachment of woollen tassels, and the like; also the broad jade blades, the beak-shaped clubs, the absence or rudeness of sculpture. The closest affinities to New Caledonia are shown by the northern New Hebrides.



Carved wooden plaques, used as stamps, from the Fiji Islands. (Godeffroy Collection.)

While Polynesian influences have flowed so copiously over the eastern boundary of Melanesia that they got possession of whole islands, Malay influences have been far less active on the west side. Only in western New Guinea are they decidedly predominant. On its eastern shores, till you come towards Tagai, the people of New Guinea were ten years ago still completely in the stone age; while in the west the working of iron had long been known. Spear-heads, short swords, and knives soon became common in the palaces on the coast of Geelvink Bay. The colonies coming from the east, who settled in the coast districts of eastern New Guinea, appear to have made more impression than the conquerors and rulers from the west. But that, in spite of that, an old connection must be assumed, is quite clearly seen both from the negroid elements which, scattered as they are throughout the Malay Archipelago, are represented with especial strength in its eastern half, and also from ethnographic characteristics. In the district bounded to the westward by a line drawn through Halmahera and Flores, both elements appear so strongly that the region appears to be one of transition from Malay to Melanesian. Here we find forms of bows and arrows showing a remarkable similarity with the Melanesian; so, too, older forms of spear, filing of teeth, and tattooing, have maintained a wide extension.

It can hardly be doubted that, from the stream of migration which entered the Pacific from the westward, rills were diverted to the continent of Australia. Here, too, we have a mingled strain, whose main constituents are a fairer straight-haired, and a darker crisp-haired race. Relations with an older world may unquestionably be presumed. The fundamental ideas, and many details in the initiatory rites for boys and girls, are thoroughly Oceanian, and connect at least Northern Australia with the neighbouring New Guinea and its adjacent islands. Traces of taboo also appear; and if their usage is less sharply marked than in Polynesia, the cause may be found in the coarser life and more indigent condition of the Australians. In former times more consistent and more highly-finished customs may have prevailed. For the racial dualism, which the rapid progress of crossing has done its best to obliterate, we can look, so far as our present knowledge allows, only to Papuas and Malays. It is a fact that Malays live, temporarily or permanently, among North Australian tribes, and exercise no small influence upon them; while on the other hand there can be no doubt as to the temporary intercourse of the Torres Islanders with both Papuas and Australians. On the north-west coasts of Australia we can prove Malayan influence more certainly than any other. The extension of the bamboo in Arnhemland, the existence of small-pox before the arrival of Europeans, the objection to eat pig-meat, testify to this. Perhaps also we may trace to the same cause the absence of the boomerang in North Australia. Without doubt these races must have begun to permeate long before the historical period. The Malay fisheries on the North Australian coast are, says Campbell, a settled institution, pointing to a long duration. The evidence of Tasmania would lead us to assume a crisp-haired race as originally inhabiting Australia; for the



Jade battle-axes and jade hatchet, insignia of chiefs, from New Caledonia. (Christy Collection.)

Tasmanian hair was decidedly more woolly than the Australian. The apparently uniform conditions of Australia are complicated by what Bastian calls "the shadow which the great continent of Asia casts over these oceanic groups of islands." We cannot disprove that Malayo-Polynesian elements may have reached Australia from the eastward also, just as easily as they got to New Guinea; but no evidence for it is forthcoming. Norfolk Island was uninhabited when discovered by Europeans. Nor is the connection with New Guinea in any way intimate. Whether remains of the dingo are really found in the Australian Post-pliocene or not, probability is strongly in favour of his having been introduced by human immigrants; and the New Guinea dog is different. Ethnographical objects, too, are not alike on the two sides of Torres Straits.

§ 3. PHYSICAL QUALITIES AND INTELLECTUAL LIFE OF THE POLYNESIANS AND MICRONESIANS

Bodily peculiarities—Racial marks—Colour—Head—Hair—Albinism—Muscular strength—Spiritual Disposition—A race of contradictions—Optimistic critics—Stupidity—Frivolity—Lies and Dissimulation—Comedy of King Finn—Licentiousness—Human sacrifices, cannibalism, and infanticide—Intellectual capacity—Influence of Christianity—Creative power of the Polynesian mind—Invention—Mythology—Cosmogony—Knowledge of geography—Medicine—Reckoning of time—Counting—Music and dancing—Wrestling and boxing—Games of children.

Among the Polynesian tribes, distributed as they are over a wide area broken up into numerous islands, varying greatly in natural resources, and permeated by a deeply-rooted social organisation, racial distinctions emerge very clearly. It is almost superfluous specially to emphasise the fact that in this race too we can find no absolute unity. Crossings have taken place, of which we can no longer determine the individual elements, though doubtless negroid constituents turned up among them. But whatever may be the history of the Polynesians, they form a special group of mankind. In close affinity with the Malay race they have a brown skin, with a prevailing tendency to light gradations, such as might on the average be designated as olive-brown; though among the Micronesians we find the Chinese yellow, and among the Samoans the light-brown tint of Southern Europeans. The hair is black, smooth to curly. Finsch considers that within these limits the Micronesians do not vary more from the actual Polynesians than Swabians from North Germans. There are Polynesian colonies in the Micronesian region, but many Micronesians come nearer to the Melanesian type.

Among the more important bodily characteristics we may mention the predominance of short skulls, often exaggerated by artificial deformation; low, but generally well-shaped foreheads, often causing the facial angle to be equal to that of Europeans; noses more often snub than curved; eyes small, lively, usually placed horizontally, with remarkably wide opening and eloquent expression; cheek bones projecting forward rather than sideways; and, lastly, mouths well shaped in spite of thick lips. In general the lighter Polynesians, more especially Maoris and Tongans, resemble most the European type even in expression; while the somewhat darker Micronesians, as has been said, approach the Melanesian. The

general character is soft features and pleasing demeanour. The expression "nobly-formed races," is so commonly used of the Polynesians that it may be worth while to point out that it is only their stature which can be judged by a European standard. "The handsomest woman of Samoa," says Hugo Zoller, "cannot be compared with anything more than a pretty German peasant girl." The hair in its finer texture and tendency to form waves or even ringlets, departs from the coarse straight Mongolian form. The best term for it is "crisp" hair. Occasionally wigs are met with, sticking up and towzled after the Papuan fashion. The colour of the hair ranges from black to chestnut brown. A lighter tinge, particularly rusty-brown wisps running through dark hair, and reddish or yellowish coloration of the tips, proceeds from frequent bathing and powdering with lime. Albinism seems to be rare. The development of hair on the face and body is less in straight-haired than in curly-haired persons.

Samoan woman. (From a photograph in the Godeffroy Album).

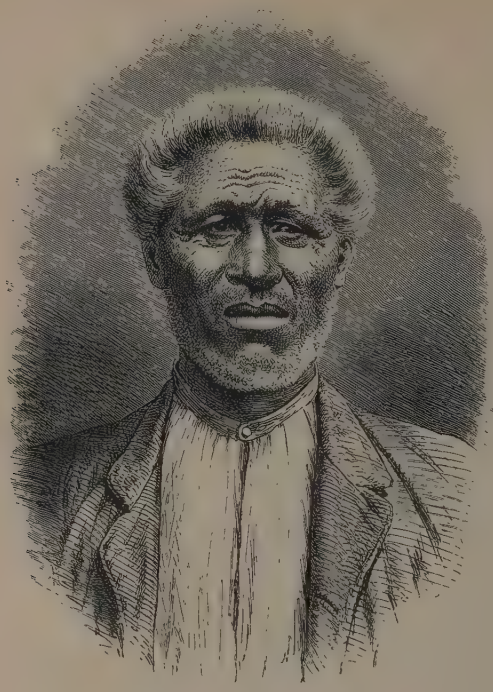
The bodily strength of the Polynesians is not very great; the small amount of labour which many of them perform hardly tends to a thorough development of the body. Even the most stalwart-looking Maoris possess, on the average, only a fraction of an Englishman's lifting power; nor do they excel in speed of foot. Arms and legs run rather to fat than to muscle. A notable corpulence

is frequent as a result of indolence. The average weight of the men in the Gilbert Islands is, according to Finsch, about 12 stone, the maximum a little over 15. In stature the Polynesians hold a medium position. Finsch's measurements give 5 feet 11 inches as the highest figure for a man of the Gilbert Islands, and 5 feet 3½ inches for a woman of Upolu, one of the most powerful and stoutest of Polynesian women. The minima fall just below 5 feet. Long ago G. Forster said of the Easter Islanders, who live under conditions calculated to stunt them: "We did not find among them a single man who could be called tall." In the Marshall Archipelago the natives of the more northerly islands, which are less visited by strangers, and produce food in greater abundance, are men of a taller and stronger stamp; while the great majority of those in the

Women of the Gilbert Islands and Marshall Islands. (Godeffroy Album.)

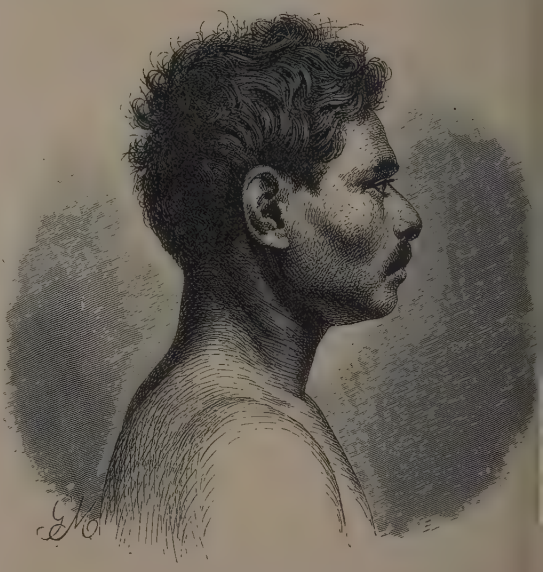
southern islands are slender men who grow old prematurely. The more weakly type tends to prevail; possibly the indolence which shrinks from the exertion of fishing, and limits itself to a vegetable diet, may have something to do with this. According to Finsch the Gilbert Islanders may be indicated as the strongest. They are distinguished by the rapidity with which they multiply, supplying an abundant emigration. Racial differences are to some extent involved in the social organisation. The lighter people of the upper classes are descended from Japanese, Chinese, and Spaniards; and tanning by the sun assuredly does not alone account for the darker tint of the lower classes. Ellis heard it said when a swarthy man passed: "How dark he is, he must have good bones." Still the darker complexions are not found exclusively in the lower classes, while the lighter skin of the aristocracy admits of exceptions here and there.

The acuteness of their senses is considerable; and this holds good not merely of their cleverness in finding lost objects, or seeing small birds in covert. An inventive intelligence is native to them. The Polynesian has not the childish *naïvete* of the negro; but at the same time he is not so reserved as the Malay nor so calculating as the Chinese. If in surrender to the impulses of their nature



A Tongan. (Godeffroy Album.)

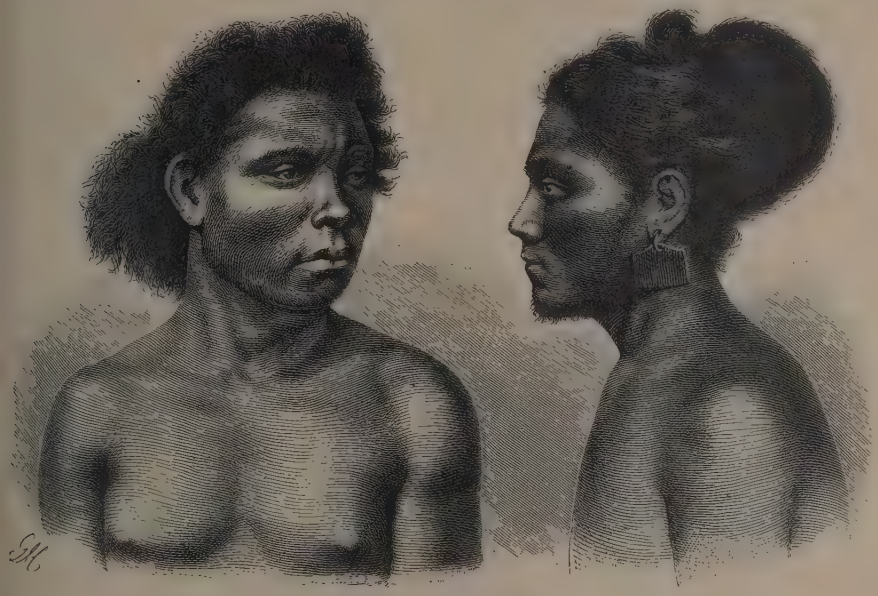
these are genuine "natural" races, on the other hand the barriers of tradition are rigid and social ordinances manifold; and although they attack Nature and each other with primitive implements and weapons, they have in other directions given proof of no narrow intellectual endowment. If all "natural" races display something contradictory in the proportion which their cultivation bears to their endowment, the Polynesians are in truth a race of contradictions. To Cook and his companions the Tahitians and Society Islanders appeared as gentle and agreeable people, in many respects to be envied, fortunate, like children of an extremely happy disposition. Yet a century ago the Tongans were still cannibals. And if we turn over the record of the dealings of the Tahitians with white men, we shall find mention of their meeting with Wallis's expedition; which they met in quite a different manner, and experienced a bloody repulse. By that time the white men had made themselves feared. In cases where they had not received any lesson of this kind, the natives appeared as regular savages. Cook was himself partly to blame, by his overconfidence, for his murder on Hawaii. A whole series of treacherous attacks are known to have occurred in the small exterior islands, such as the Paumotu, Savage, and Penrhyn groups; and the history of New Zealand records still more. Without being savages after the fashion of the Bushmen or Australians, the Polynesians are of an untrustworthy changeable character. The Micronesians for the most part maintain a timid attitude; but they are



A man of Rotuma. (Godeffroy Album.)

frequently few in number confined to a solitary island, and almost defenceless against strangers.

Under great outward vivacity lies the dulness of the uncultured nature. Even among Christian Polynesians one is struck by the indifference with which they meet a disgraceful death at the hand of the executioner; and the tranquillity of children at the death of their parents, particularly in blood-steeped New Zealand, has been remarked. Human sacrifices and cannibalism must have left their traces in the disposition. These evil qualities are cloaked by a childish levity. The task of the criminal law is materially lightened by their garrulity; they cannot keep a secret, even to save themselves from the scaffold. Throughout Polynesia



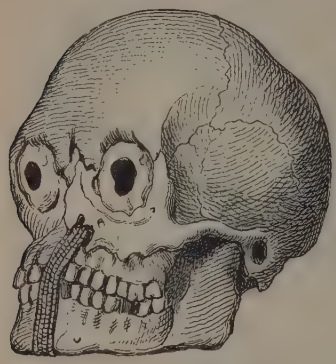
A man of Pelew, and a man of Yap in the Carolines. (Godeffroy Album.)

one hears plenty of quarrelsome talk and sees very little fighting. Even in serious warfare words play an important part. Many words are accompanied by many falsehoods. An entertaining proof of the art of the Polynesians in fiction is afforded by the appearance of the sham king Finn on Cook's second visit to the Friendly Islands in 1777. In order to carry through the part, many others had to take as much share in the farce as he himself; and yet Cook was taken in for some days, and only began to suspect when he saw the impostor do obeisance to the real king.

The Polynesians show themselves quite open to the requirements of an industrial life in the European sense. The sugar-plantations which form the chief wealth of Hawaii are no doubt at present chiefly in the hands of whites or half-breeds; but King Kamehameha III. rendered essential service in promoting the cultivation of the sugar-cane. The first Christians on Maui performed a wonderful feat when they built a church 100 feet in length; carrying stone, lime, and sand on their backs, and hauling timber with their hands. Twice the principal

rafter gave way, and for the third time they put it up again, nothing loth. It is, to be sure, just the valiant, laborious, progressive Polynesians who are decried by Europeans as avaricious and stubborn. The Samoans and Tahitians are reckoned more serviceable. The profound difference between the dissolute, idle, light-skinned inhabitants of fertile Tahiti, and the industrious, clever, sober, muscular native of the poorer Tonga Islands is instructive. Is it not significant that the Tongans escaped the corrupt aristocratic rule of Tahiti?

In order to form a fair judgment as to the licentiousness ascribed to the Polynesians, we must consider that their excesses were described with much exaggeration by visitors who only learned to know the people superficially. Much of it no doubt arises from their general level of culture. Levity and idleness have in some places allowed sexual irregularity to reach an incredible pitch of corruption among the upper classes; while in New Zealand, in Samoa, and especially in Tonga, women hold, on the contrary, a high position.



Dressed skull, from the Marshall Islands. (Godeffroy Collection).

Human sacrifices, cannibalism and traces of it, also infanticide, will be dealt with in the section on society.

With the first ray of light which falls upon the life of Polynesia, together with the opening-up of the central regions of the Pacific, we get a glimpse of a strong movement of great value in the history of civilization. If indeed it be too much to assume that a development in the direction of a pure monotheism was making its way in their religion before the arrival of Christian influences, we can, at any rate, recognise therein a powerful impulse towards the creation of a pantheon. With a little more space and a little more stability, we should have found an Indian mythology in Polynesia. Morally the Polynesians did not and do not stand high; and yet their abandonment of cannibalism and human sacrifice speaks a great deal for their self-education. It is a progress towards humanity to which full justice has not been done by all critics. Generally too the Polynesians have shown a rare capacity for education; quite apart from their faculty of imitating European dress-customs. Nowhere else have missions so soon attained to the point of sending out native teachers. For many years whole groups, such as Tonga, Samoa, Hervey, have possessed a church and a school in every village, with clergy and teachers of whom by far the greater part are natives. At the same time these communities soon became self-supporting. The London Missionary Society has for years no longer had occasion to send pecuniary aid to Samoa; on the contrary, that Mission has itself forwarded material contributions for missionary purposes to other districts. Among the most curious phenomena are the independent offshoots from Christianity. Thus in Upolu, Siovedi, a native of Savaii, founded the "gimblet-religion." Professing to converse with God and to work miracles, he enjoined a mutual confession of sins in cases of sickness; and his divine service was rendered specially impressive by the discharge of firearms. Also in Samoa, a native, who taught the invocation of the God of Heaven, brought with him on his return from the whale-fishery an old woman who used

to "touch" for diseases from behind a curtain, alleging that Christ resided within her.

In all variations of Polynesian mythology an element of philosophising appears in astonishing luxuriance. Nowhere do we find better confirmation of the fact that at this stage mythology includes all science. When, as in the Society Islands, we find the creation of spiritual forces following immediately upon the emerging of Ru from the side of his mother Papa, we are in the region of abstractions. Not till then is the material world created by the union of Tangaroa with the various forces of Nature. We get the impression of natural science in embryo when Tangaroa produces, with the goddess of the external world, clouds and rain; with the goddess of the inner world, the germs of movement; with the air, the rainbow, the light, the moon; and with a goddess dwelling in the earth, volcanic fire. This structure of ideas, the creation of thoughtful minds, was not adapted for wider extension, and therefore the universal mythology of Polynesia could not accommodate itself to the analysis of its simple cosmogony, which made the world result from the embrace of heaven and earth, into these abstract conceptions. But in the great simple images of the sea, the islands, the earth as a fixed island or floating in the sea, in their need of orientation by the aid of sun, moon, and stars, the Polynesians found an inducement to observe the heavenly phenomena more keenly, and to form cosmogonic imaginations. Their conception of the world, to the formation of which fancy has contributed more than understanding, is yet based upon a mass of observations. The moon is a woman, with an indwelling capacity for renewal. The man in the moon is Rona, who stumbled as he went about at night and was taken up by the moon with the branch of the tree to which he tried to hold. Both sun and moon renew their youth in the spring of the water of life. While the moon and stars are in a heaven nearer the earth, namely the third, the sun shines only from the fifth; else he would burn up everything. Sun and moon once lived together and produced the dry land of the earth. And while the sun is on one side made fast to the moon by Maui, on the other it is bound to the earth by its own beams. From this twofold attachment also eclipses arise.

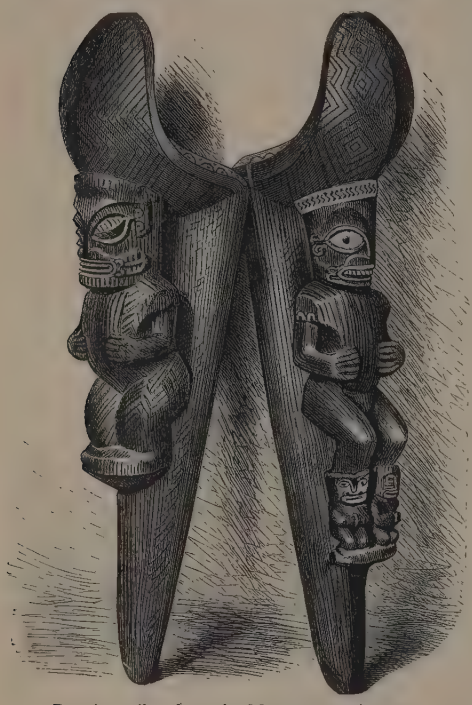
Bamboo flutes from Hawaii. (British Museum.)

The stars were created by the ancestors of the present Polynesian race. As the population of heaven they are divided into two parts, between which the Milky Way, or "great shark," forms the boundary. The shooting-stars are the means by which they send messages to their former creators. Among the constellations Orion with the Southern Cross and the neighbouring stars as "Tamarereti's Canoe," and the Pleiads, under the name of "the bowsprit of the canoe," enjoy special consideration. In the rainbow they see also the bow, or the gleaming bowstring, or the ladder whereby the souls of chiefs ascend to heaven.

The frequent migrations of the Polynesians from one island to another led in course of time to the acquirement of a certain stock of knowledge. The talented Tupaia drew for Cook a kind of map on which numerous islands of

Polynesia were marked. The names were found to be pretty correct, but not the position and size. Intelligent people were fairly well informed about neighbouring islands; they distinguished the low or coral islands from the lofty or volcanic, and knew whether they were permanently or only occasionally inhabited, and the like. The brother of the chief of Raraka drew with chalk on the deck of Wilkes's vessel all the islands of Paumotu that he knew, and named three, which were actually discovered later.

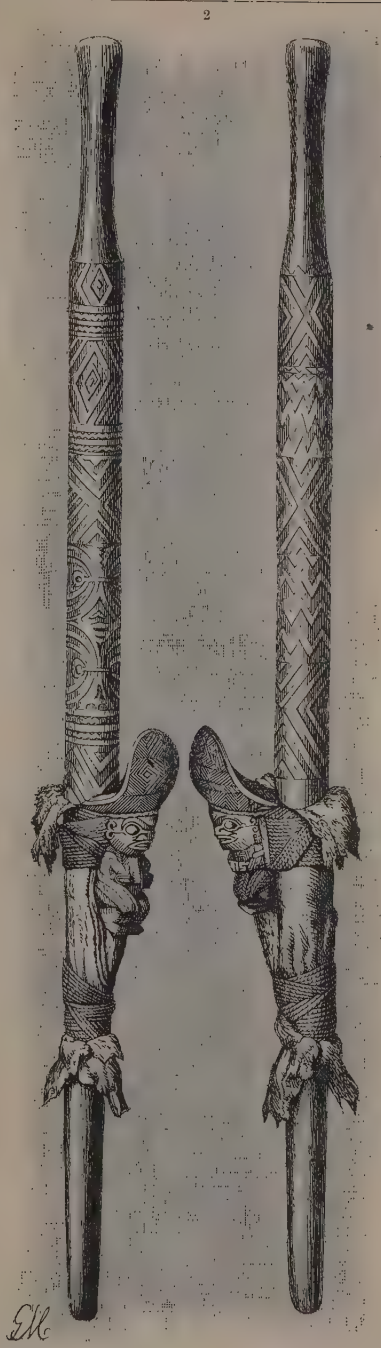
What the Polynesians knew rested on a great persistency of tradition. Their stock of culture shows of how much a talented race, without writing, and we may add, in its stone age, is capable. Mythology, historical tradition, and star-lore, are taught together by special persons, and a little medicine besides. Part of this is kept secret. Genealogies are taught at night to promising boys. On the memorial tablets they find the important names in the notches, distinguished by special ornamentation. When they become priests they recognise each other by secret passwords. The traditional hymns which are recited at purificatory festivals are in the keeping of the priests. Besides the sacred, there is also a profane tradition, the depositaries of which are often curiously enough in the lowest ranks of society. To them are entrusted historical memories, the lays of the heroes, the myths which have become old wives' fables. Among the priests a kind of medical science had developed itself, the sound principles of which were smothered under the hocus-pocus of supernatural commerce. The Tahitian places the seat of life and natural disposition in the belly, and uses the term "bowels" to denote what we express by "heart." On the other hand the head is as with us the seat of the human thinking faculty, and for this reason receives special veneration, which to be sure has a cannibal tinge. Among the more rational modes of treating the sick, "massage" has the first place. Among medical apparatus we find bottle-gourds for administering injections, and the claws of a *Squilla* for puncturing pustules.



Dancing stilts, from the Marquesas. (Munich Ethnographical Museum.)

The Polynesian language possesses numerals to denominate the thousands. *Lehu*, "ashes," indicates the limit of the numerable. As a rule the system is naturally that of division into fives and tens; but *Tou-Fa*, that is "four-reckoning" forms in the Marquesas and Hawaii a scale with forty as its peculiar unit. In Hawaii, Ule, Pelew, and elsewhere, they used, to facilitate counting, a system which was also highly elaborated in Peru, of tying knots in string. The Tahitians tied strips of coco-palm leaf in bundles; the New Zealanders used notched sticks.

Time is reckoned by lunar months. In Tahiti there were fourteen of these, two of which Forster regarded as intercalary. The names of the months in many cases are referable to agriculture and the phenomena of vegetable life. In New Zealand we find thirteen months, and the tenth reckoned twice over. The names of the months and the first day of the year vary from one island to another, and besides



1. Paddles used at dances, from Easter Island—one-thirteenth real size (Berlin Museum of Ethnology).
2. Bamboo dancing-stilts, from the Marquesas—one-tenth real size (Christy Collection).

that, traces remain of another system of chronology dividing the year into two parts with the disappearance and reappearance of the Pleiads, thus reckoning six months only. Thus in a number of islands New Year's day falls at the southern winter solstice. Besides this, they reckon by generations; and this reckoning goes back twenty-nine generations in Rarotonga, twenty-seven in Mangareva, amounting to a handsome tale of centuries, but of course starting from mythical times.

Song and dance occupy a large part of the life of the dwellers in the fortunate isles of the tropic zone. The Maoris, too, sing on every occasion; at work, in dancing, in rowing, at their sports, or when marching to war. They especially like amœbean songs, in which choruses alternate with individual chants. But the character of their songs is not cheerful, however cheerful may be the mood which inspires them; rather are they solemn. The Polynesians have a decided sense for rhythm and even for rhyme. At the more important performances, monologues, dialogues, even the rudiment of a drama, often consisting in the mimic representation of a quarrel, ending in blows, are put on the stage between *pas seuls*. On these occasions dancing-wands or dancing-stilts, often finely carved, are in use. Cook's companion, Anderson, describes a musical entertainment in Tonga as follows: "Eighteen men sat in the ring of spectators, four or five having bamboo-tubes closed at the lower end. These they steadily struck almost vertically on the ground in slow time; muffled notes, varying according to the length of the tube, being given out. Another musician produced clear tones by striking with two sticks a long split bamboo which lay on the ground in front of him. The rest sang a soft air, so much mellowed by the rougher tones of the simple instruments that no one could help recognising the power and pleasing melodiousness of the music." On other occasions hollow tree-stems are beaten like drums with two sticks. Of all the manifold European instruments the drum was the only instrument of which the Tongans would take any notice; and this they thought inferior to their own. Micronesian drums are distinguished for their marked hour-glass shape. Particular drums are used in divine service, and are regarded as sacred. Bamboo flutes and shell trumpets are everywhere common.

Among the dances are also included the war and weapon games, and the favourite wrestling and boxing contests. In Hawaii, when Cook was there, even the girls took part in these. The Polynesians have a great liking for games.[1] One of their games is very like our draughts, but appears to be more complicated, since the board has 238 squares, divided into rows of fourteen. Another consists in hiding a stone in a piece of cloth, and trying to find it by hitting with a stick; in this game the betting is the important point. Ball-games are very popular. In the Hawaiian game called *Lala*, a wheel-shaped stone (*Maika*), is thrown as far as possible; and players stake all their property, their wives and children, their arm and leg bones (after their death), and at last even their own persons on one throw. Another pastime is racing between boys and girls. Swimming in the surf with the help of a board or spar is also in some measure a game of chance; it is played, especially in Hawaii, by

[1] [Mr. Stevenson mentions somewhere that cricket-matches in Samoa used to be played by whole villages, some hundreds on a side, and to last for weeks. At length the waste of time and cost of entertaining the "visitors" reached such a pitch that the chiefs had to interfere.]

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PATTERN OF POLYNESIAN TAPA.

(From Cook's collection in the ethnographical Museum, Vienna.)

both sexes with much dexterity and pluck. Little boats are a frequent toy of children; who also, like their elders, are fond of ball-play. The young New Zealanders have a special predilection for flying kites. Another game of theirs is to throw up a ball made of leaves bound together, and catch it on a stick sharpened at both ends. Besides these, games with the fingers, like the Italian *morra*, are very common; and the players are extremely clever at them.

§ 4. DRESS, WEAPONS, AND IMPLEMENTS OF POLYNESIANS AND MICRONESIANS

Dress and ornament—Tattooing—Deformations of the body—Feather ornaments—Modes of wearing the hair—Objects used for ornament—Bark cloth—*Tapa*—Mats—Weapons and implements—Lack of iron—Working in stone—Manufacture of weapons from wood—Spears—Clubs—Limits of diffusion of bow and arrow—Slings—Industrial activity.

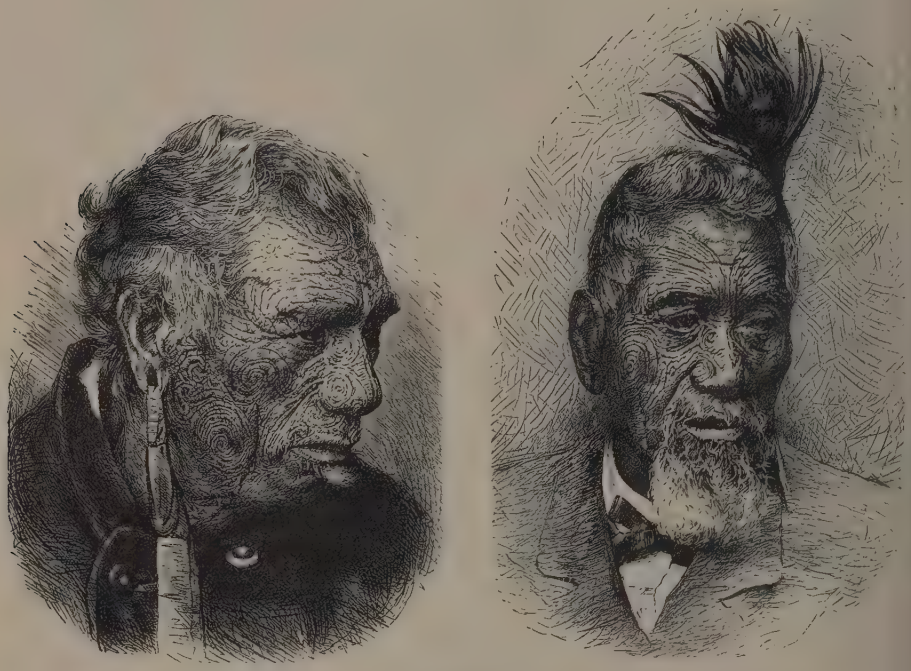
THE stage of culture which the Polynesians have reached is very clearly expressed in their external appearance; that is, in their dress, their ornaments, their equipment. Living under a fortunate sky, and surrounded with water, both Polynesians and Micronesians bathe often, and are, therefore, a cleanly race. Unluckily they frequently destroy the effect of this virtue by excessive anointing of themselves with coco-palm oil or chewed coco-nut. They prefer fresh water to salt for bathing, and regard both as a good remedy against illness. Women with their newly-born infants, and even people in mortal sickness, will bathe.

Artificial mutilations and embellishments of the person are widely spread. Deformation of the skull, both by flattening it behind and elongating it towards the vertex, is found in isolated instances in Tahiti, Samoa, Hawaii, and the Paumotu group, but occurs nowhere with such frequency as on Mallicollo in the New Hebrides, where the skull is squeezed extraordinarily flat. Flattening of the nose is practised in Tahiti and among the Yap Islanders; and the nasal septum is often bored to allow of the insertion of flowers or feathers. The ears are bored, and bits of greenstone, teeth of men and sharks, feathers and flowers, stuck in for ornament. On Easter Island, as in Micronesia, the ear-lobes are dragged into flaps by heavy wooden plugs. The Micronesians also bore the rim of the ear in various ways.

Tattooing nowhere reaches such perfection as in these regions. In Polynesia the men are in general more tattooed than the women; but in some places both sexes are alike, and on Nukuor the women only are thus adorned. The custom of tattooing the face was not in use among all Polynesians, particularly not in Rarotonga; though universal among the Maoris, with whom the Rarotongans were brought into the closest contact. The special forms of tattooing intended to excite fear seem to have left off since the introduction of European modes of fighting. Another advantage claimed for tattooing is that it obliterates differences of age. Lastly the embellishment resulting from it must not be forgotten; as the tattooer's song says:

. . . Every line be duly drawn.
On the man who's rich and great
Shape your figures fair and straight;
On the man who cannot pay
Make them crooked, coarse, and splay.

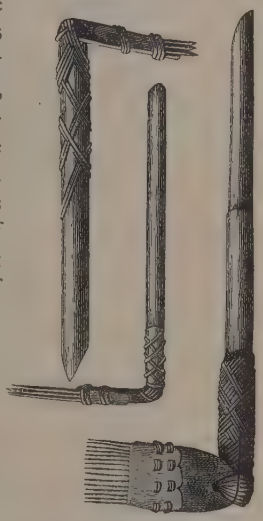
Here, as with other Polynesians, tattooing is no doubt founded upon, and proceeds from, some religious idea. It is regarded as a sacred profession, which



Tattooed Maoris. (From a photograph in the possession of Herr Max Buchner.)

is exercised by the priest to the accompaniment of prayers and hymns. The figures depicted are often those of sacred animals like snakes and lizards. In Samoa it is based on the doctrine of the *Atua* or tutelary spirit in beast shape; which was why the missionaries found it so hard to put an end to the practice. In the Micronesian region tattooing has become to a great extent a pure matter of decoration, but not everywhere. On Nukuor the women live for three months secluded in the sacred house, and bathe in the sea before undergoing the operation, which extends only to a small portion of the lower part of the body. In the Radack group the patient spends the previous night in the house of the chief, who prays for favourable tokens. In the Society and Paumotu Islands, the Marquesas, the Carolines, differences are made according to rank; the common people being tattooed on the loins only, whilst the *Eriis* or *Ariki* are distinguished by large circular markings over the whole body. In the Gilbert Islands a poor man who is tattooed enjoys more influence in the general council than a rich man whose surface is blank. On Rotuma caste-distinctions are indicated by tattooing.

Yet the chief's rank is not always thus expressed; many chiefs are but slightly tattooed, while ordinary citizens show this ornament all over their persons. In the Marshall Islands the right of tattooing the cheeks is reserved to the chiefs, while on Mortlock Island differences of rank are shown in the decoration of the legs. The two sides of the body are often unsymmetrical, and in this case the right side receives the more elaborate treatment. The Samoans select for tattooing exactly the region which we cover with bathing-drawers; the effect produced being that of a striped and spotted cloth wrapped about them. Among the Maoris it took years before the body was ornamented up to the design conceived in the artist's fancy; but with them the traits of the face are literally dissolved in arabesques. The operation, as applied to lips, eyelids, and nose, was painful, especially before the introduction of iron; in the Hervey Islands, Forster saw even tenderer portions of the frame sedulously tattooed. The method is in this wise. The figure is drawn where required; then a little stick, pointed with stone, bone (human bone for choice), or iron, is tapped with a wooden mallet so as to form a series of punctures along the lines. The tattooing tools consist of an instrument something like a little hoe, made of hard wood—four shapes occur in Samoa—the flat blade of which terminates in a number of sharp teeth, and a little mallet made of the same wood and shaped like a paddle, which serves to drive it in. For colouring, the Maoris use the soot of *kauri*-pine wood.



Tattooing instruments from the Friendly Islands — one-third real size. (British Museum).

Besides this, in time of mourning the skin of the face, arms, and legs has to undergo cutting with sharp shells, while at festivities it was usual to colour it with red and black paint. Thus when Cook visited Easter Island the women had painted their faces with ruddle, some also with the yellow dye of the turmeric; others whitening them with cross-streaks of lime. Herewith we may reckon the fact that in accordance with the proverb "No wife for a hairy man," every vestige of hair is removed from the face; though it is otherwise in Micronesia. In other parts of the body the hair is extracted with tweezers made of mussel-shell. Circumcision in a modified form is very common; though over large regions such as Hawaii and New Zealand it is not practised, and elsewhere, as in the Marquesas, is not universal. This operation also is of a religious character, and is performed by the priests.

The mode of wearing the hair is suited to its stiff growth, and is simple accordingly. It is either worn unfastened and falling, or is cut off. The latter course seems, in the Society Islands and their neighbourhood, to have been enjoined upon all women except those of the royal family. In the Friendly Islands men and women wear the hair cut short and combed upwards in bristles. By powdering with lime the tips are reddened, while turmeric gives a golden gloss. The fashion of wearing the hair tied in a top-knot may perhaps be an imitation: on the very first day of Cook's visit a Tahitian chief copied his bag-wig. With the imperfect cutting-tools at their disposal, the shaving of the head was no light

matter; and there were few among the achievements of civilization which the Polynesians had cause to prize so highly as scissors and razors. In Micronesia the head-ornament consists almost everywhere of a long narrow wooden comb, with ten or twelve teeth, decorated about the handle, and at times furnished with a rich feather-ornament. The long hairpins serve also to allay the irritation of frequent insect-bites. The curly hair of the Gilbert Islanders is frizzed up with a stick till it stands out in a crown. On Mortlock Island the head-ring is covered with fibres after the manner of a brush; while on Nukuor the head-dress is formed of a long plate of wood, broadening towards the top. This sort of thing, however, must no doubt be regarded as a dance-ornament or a religious emblem. The ancestral statues often carry a similar adornment. Actual head-coverings are not usual, or are permitted only at night, or out of the country. In the Carolines, as formerly in Hawaii, European hats are directly imitated. On Fakaafo in the Tokelau Islands, Hale saw boatmen wearing eye-shades of closely-plaited material bound on to their foreheads, just as weak-sighted people wear them with us.

A man of Ponapé in the Carolines. (From a photograph in the Godeffroy Album.)

As with tattooing, so feather ornaments extend back from the domain of secular fashion to that of religion. Birds are among the sacred animals, and this is especially the case with that bird which in its red tail-feathers affords the article most sought for ornamental purposes among the Polynesians, the Tropic-bird (*Phaethon*). At one time no article of commerce was in such demand in the Society Islands. The feathers were stuck on to banana-leaves, which were bound on the forehead; and even on the coco-nut fibre aprons of the dancing-girls. The most valuable head-dresses were made of feathers. Other objects of wide distribution were the supple necklaces of twisted string, in which coloured feathers were twined. In the Marquesas and on Easter Island feather-diadems were also worn. But it was in Hawaii that feather-

ornament reached its greatest development and its highest value. The feathers of *Melithreptes Pacifica* were luxuries which forty years ago were permitted only to the most distinguished people. Helmet-shaped head-dresses were decorated with yellow feathers, quite reminding one in their shape and colour of the head-gear worn by Buddhist priests.

Trifles of the most various kind find employment for decorative purposes. In its shells of many colours the sea provides copious material. Flowers and tendrils are worn in tasteful style round the neck, in the hair, in the ears, even in the nose. Knotted strings of *pandanus*-leaf or coco-nut fibre serve not only for purposes of divination, but, as on Ule, for the reckoning of time; and many chiefs wear them for that purpose round their necks. Or are we to see in this a kind of record of memoranda (*Dui*) such as the chiefs carry in Pelew? To these superstition adds shells and bones of particular shape, human bones, human teeth; even millipedes are strung together for necklaces. Pendants of birds' bones and ear-ornaments of albatross-skin were favourite modes of adornment with the New Zealanders. On Tongatabu the natives used as ornaments the iron nails which Cook had brought for trade-purposes; one nail was the price of a hen. In Tonga chains were made of long thin leg-bones, alternating with small brown snail-shells, and from them hung a large mother-of-pearl shell. Single teeth, birds carved from sperm-whales' teeth, black and white beads made from shells, are also hung round the neck. Combs made of the stalks of plants, bound close and evenly round the upper end with finely-plaited fibres are among the most beautiful productions of Tongan art. In Hawaii the ornaments are either for the feet, thickly set with dogs' teeth, snail-shells, or beans, or else armlets made of carved pieces of bone or tortoise-shell, all of one size, fastened into a flexible whole by doubled threads passed through them. Similar strings with closely-ranged disks of shell, divided by smaller disks of a black nutshell, are used as money and also occur as foot and arm ornaments.

Breastplate of mother-of-pearl set in iron, and with sling of human hair—one-fourth real size. (Christy Collection.)

In Micronesia also garlands of fresh flowers, red and yellow, play an important part in feminine adornment. A shell, a circular piece of mother-of-pearl or tortoiseshell, little polished disks of *Conus* shell, all strung on a thread of human hair, form the favourite gaud of the Gilbert and Marshall Islanders. On Pingelap bits of red *Spondylus* shell are liked for necklaces; elbow-rings of *Conus* and *Nautilus* shells are worn on Yap.

A Polynesian with all his jewellery upon him gives the impression of being overlaid with varied hues. But the taste for colour, in the absence of staring mineral pigments, was formerly much better developed than it is now that European traders have taken to dressing these people in their stuffs at so much a yard. Both sexes among the Polynesians are graceful; nor is coquetry unknown. On Sundays the Samoan women put on a long and ample chemise-like garment, always of a bright colour, which suits them charmingly. When

they go to church they add a tiny straw-hat, decked with flowers and ribbons of many colours, stuck as much as possible on the side of the head. For dancing,

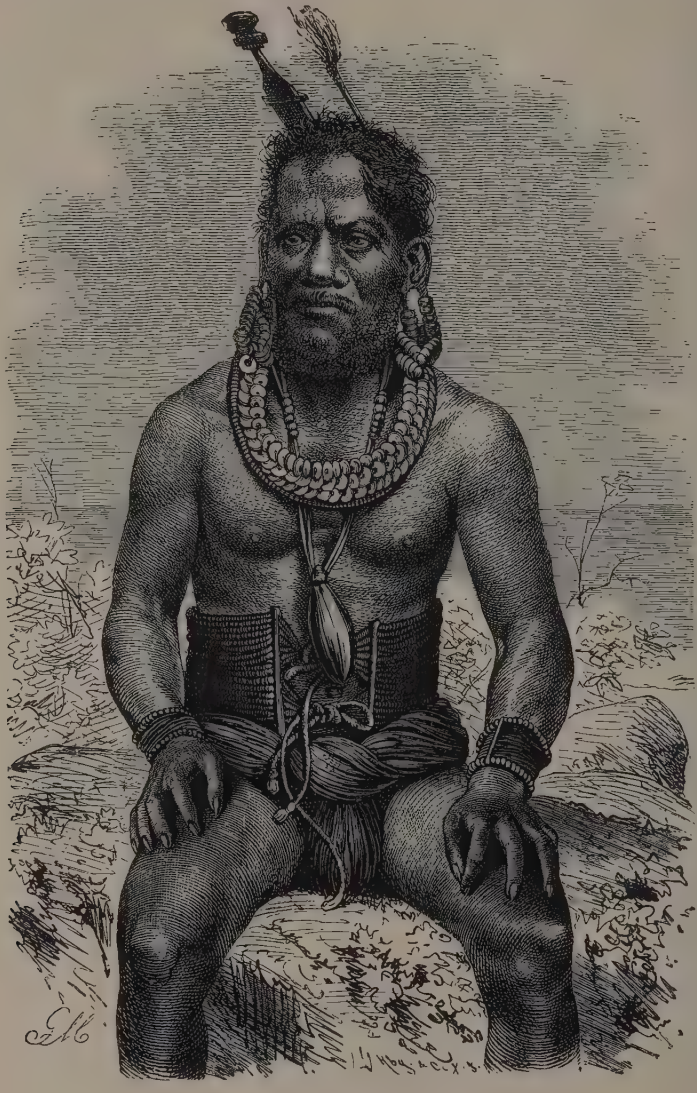
1. Woman of Ponapé. 2. Woman of the Paumotu Islands (From photograph in the Godeffroy Album).
3. Women of the Society Islands (From photograph in the Dammara Album).

masks are worn ; also a peculiar ear-ornament, and skirts of leaves so dry that as they move to the tune a rustling sound arises. Red paint is also freely

employed, and they carry paddle-shaped dancing-wands. The Polynesians belong to the better-clad races; they have advanced far beyond the point of mere covering and gone in the direction of luxury. For this reason their bark stuffs, *tapa* and *gnatu*, and their mats form the largest and most valuable part of their property; in some districts mats are a recognised form of currency. In many cases a skirt is worn girt about the waist and falling to the feet; the Tahitian women used to wear a cloth over their shoulders with an opening for the head in the middle, and, in addition, a skirt made of finer stuff. Both sexes wore another cloth wound turban fashion round the head. In the Friendly Islands the dress was simpler; the skirt of the men was twisted up in a great bunch behind often very short; that of the women tied below the breast, and as a rule not accompanied by the cape. Similarly in Samoa and the neighbouring islands the dress of men and women consists of a piece of cotton cloth wound round the hips and reaching to the knee; leaves are frequently employed for the same purpose. In wet weather the bark cloth is often replaced by a mantle of long broad leaves which hang down in a fringe; on solemn and festive occasions the natives put on a fine mat of plaited fibre. The inhabitants of the eastward islands are scantily clothed. The Easter Islanders, when first seen by Forster, were either quite naked or with an inadequate apron hanging from the girdle. In the Society Islands, on the contrary, the luxury of clothing acquires a symbolical significance. The war-clothes there consist of three poncho-like garments put on one over another: the undermost a long white one, over that a red, and outside all a short brown one. A dense envelopment of the whole body in as many cloths as possible stands for a sign of a peaceful reception. In the time of Cook and Forster the Tahitian dancing-girls wore a piece of brown stuff closely wrapped round the breast. About the hips was a pad of four layers of cloth, one upon another, alternately red and white, bound close with a cord whence a mass of white cloth hung to the feet. The dress of the New Zealanders consisted of skirt and mats; these were fastened on the right shoulder in men, on the left in women, the men wearing in addition a flax belt from which hung the *mere* and battle-axe. Head and feet remained as a rule uncovered, though some tribes on the middle island had flax sandals. What the axe of greenstone is as a

Samoan lady with hair dressed high. (From the Godeffroy Album.)

production of male industry, the mat is in the case of the women. From flax alone they prepared twelve different mats. Besides this, rugs were made of, or trimmed with, the skins of dogs and birds. The only distinction of rank, other than tattooing, was shown by the mats. Every tribe had at one time some

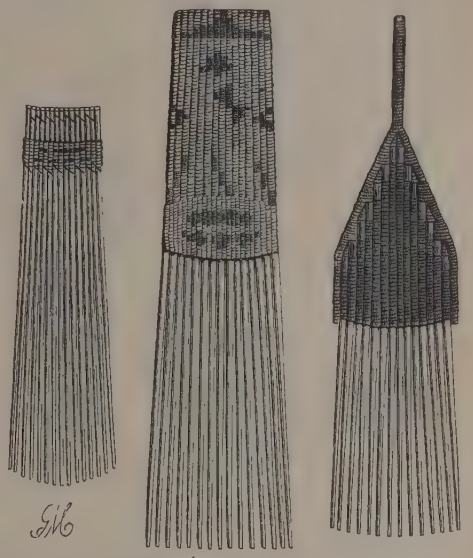


Man of the Ruk Islands. (From the Godeffroy Album.)

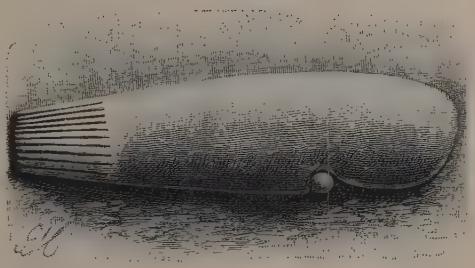
special pattern of these, the differences consisting in the preparation of the fibre and in the ornamentation.

The clothing of the Micronesians is less copious. In the northern Pelew Islands we find men going quite naked. On Nukuor any clothing beyond the absolute requirements of decency is allowed only at night and outside the reef.

The Mortlock and Ruk Islanders are at the other end of the scale with their poncho-like mantles woven of *musa* and *hibiscus* fibres and having the hole for the head bordered with shell ornament. On the other hand, on Ruk the boys do not obtain the mantle and therewith the privileges of male society until a later age than that at which the girls are clothed with the apron. Here the list of a chief's wardrobe consists of mantle, belt, ear-ornaments, and rings of nutshell, two necklaces, armlets, and breast-ornament. A Caroline Islander of the old style wears in the first place a shirt made out of narrow strips of coco-palm leaves reaching almost to the knee, over which the men on festive occasions put a second of a pretty yellow colour, broad in the fibre and longer. Sometimes Caroline Islanders who have become Europeanised, continue to wear the skirt under their shirts. Besides this it was formerly the custom with both sexes to wear a belt supporting a band made of banana fibres gaily coloured which passed between the legs. Among the inhabitants of Kushai this formed the only clothing. This product of Caroline industry was woven on a machine in which the weft was contrived by a laborious knotting together of various coloured threads, while partly the same threads, partly also red woollen yarn, were employed for the warp. On the Mortlock and Ruk Islands broader girdles of 15 to 25 strings were worn, with little disks of nutshell arranged on them. According to Kubary's reckoning, not less than 12,500 of these were required for a girdle of twenty strings, so that among these islanders the girdle is among the most highly-prized articles of clothing. Equally valuable used to be the girdles made only to order by the people of Pelew, from opercula of a rare *tridacna* shell, and the chains known as *klilt*, made of sixty-four tortoiseshell plates.



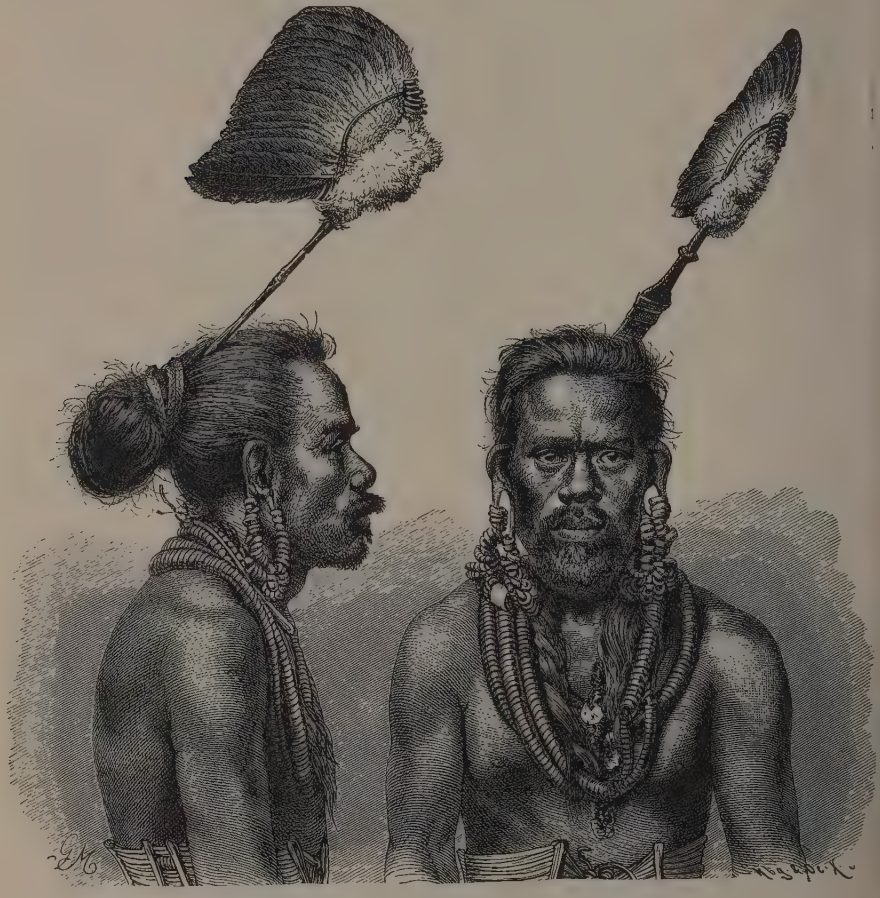
Combs from Tonga—one-fourth real size. (British Museum.)



Bone comb from New Zealand—one-third real size. (British Museum.)

While the men have often remained faithful to tradition, the dress of the women has been altered much more owing to the intercourse with white people. They wear coloured cotton pocket-handkerchiefs both round the waist and also poncho-wise over breast and shoulders. The stuffs made of strips of palm leaf and bast have almost disappeared.

The weapons and utensils of the Polynesians are remarkably varied and abundant; but among the Melanesians we meet with a still more copious display of inventiveness and artistic ingenuity. The absence of iron is especially noticeable. When Europeans first came into contact with Polynesians, they found them compelled to make up for the want of metals by using stones, bones, and shells. Few of the Polynesian islands possess metallic ores. On the coral islands this might be expected, but it is also true in most cases of the volcanic formations.



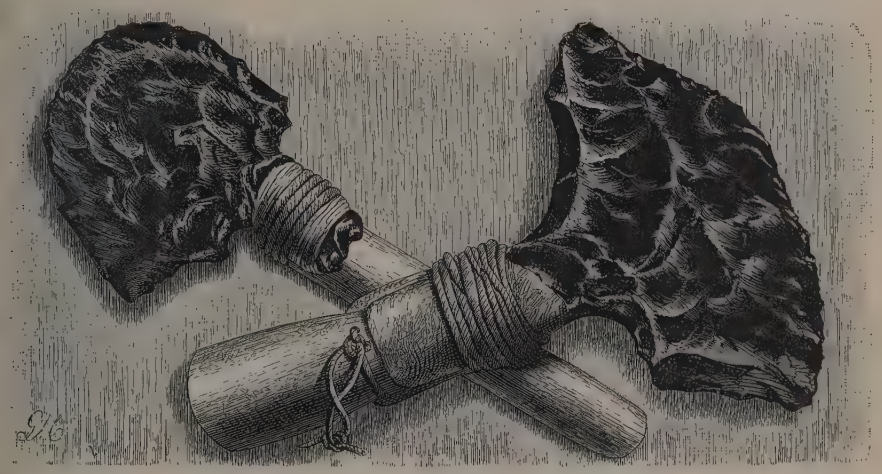
Man of the Ruk Islands. (From the Godeffroy Album.)

But the level of culture among these races is such as to make us believe that if they had discovered the raw material they would have advanced to the use of the metals. With stone, bones, teeth, wood, they have achieved all that was possible. The implements of navigation and fishery, the boats and hooks, are perfect of their kind, and show evidence not only of cleverness but of the inventive faculty. Unlike the Australians and Bushmen, as soon as they get iron they know what to do with it. Naturally, iron was also converted to purposes of ornament; and as the value of glass beads had already dropped considerably, iron ware of all kinds

Coco and Sago Palms.

remained the leading article of European trade. They made it available at first in the forms to which they had long been accustomed, putting pieces of iron hoop into their axes in place of *Tridacna* shells, as shown in the cut on p. 208, but retaining in other respects the customary form of the implement. On Ponapé, where we can date the end of the Stone Age about the beginning of the twenties of the present century, iron blades were still always fixed in the lemon-wood handles as the stone had been ; but the old stone ones were kept, as sacred relics, in the most secret corners of the house.

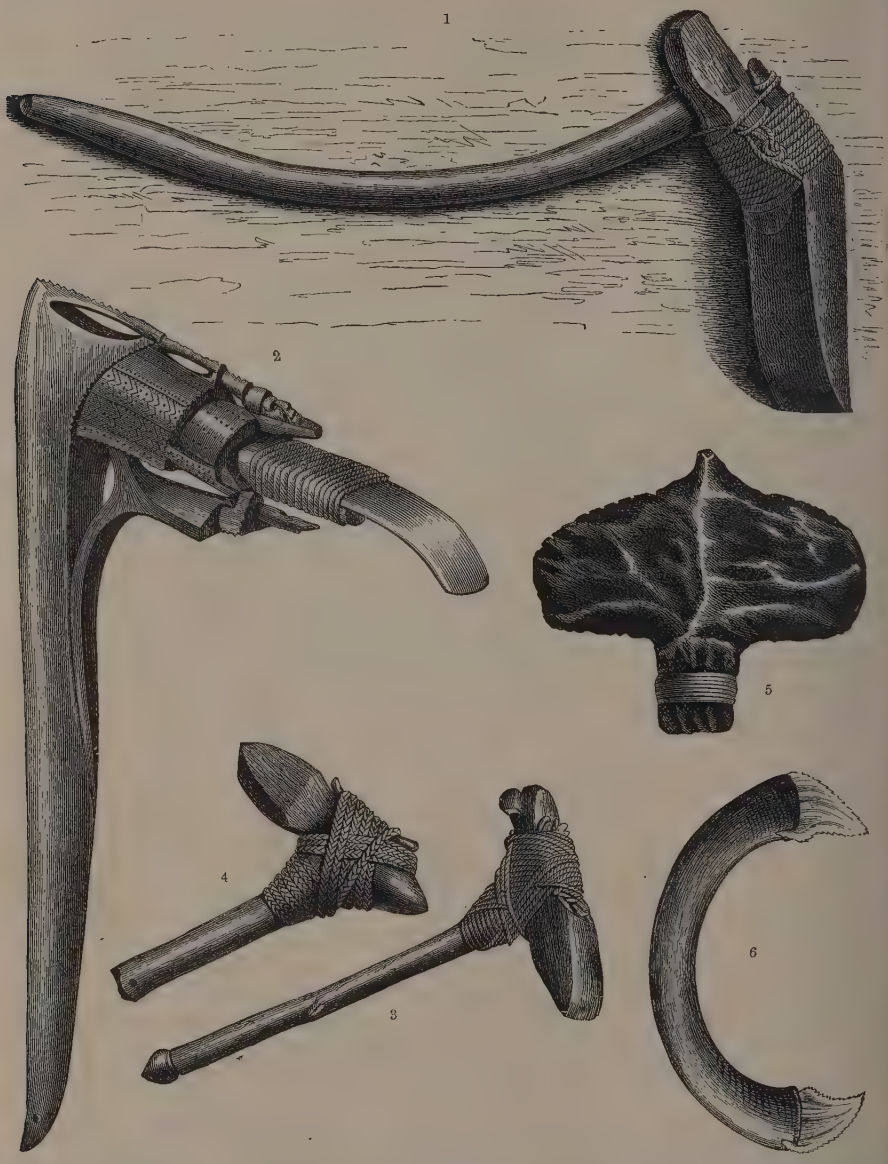
For all heavy implements, especially hammers, adzes, and axes, stone was the most valuable material. It was less so for spears, and stone arrowheads were never in



Obsidian axes from Easter Island—one-third real size. (British Museum.)

use. In Polynesian and Melanesian stone-axes we are struck at once by the fact of their not being perforated, and by the rudimentary workmanship of the outline, though careful rounding and polishing are not unknown. Even with the choicest material and the most careful workmanship these axes do not go far beyond the simple wedge ; and thus we seldom find them ground either hollow in the neck for attachment, or to a curve in the sides. The simplest on the whole are the New Zealand axes or adzes; often plain rectangles, with the edge ground not in a curve, but angular. Even in the very large and handsome axes from Hawaii the cutting is rough so far as the rows of string which fasten the head to the handle extend. But the rudest of all are the hatchets of the Easter Islanders, resembling rather knives, "knapped" from obsidian or lava, very broad in the blade and short in the handle. The axes of New Guinea and the neighbouring islands are often not inferior to these in size, but are more rounded ; being fastened not on but into the handle. The Hawaiian axes, 8 to 16 inches long in the blade, are in size and shape more like those of New Zealand, but are flattened off where they are laid against the helve. Long, narrow, chisel-like stone blades are also found in this region ; while the large ornamental axes of the Hervey Islands have thin blades of basalt of a spade-shape, often somewhat curved. The fitting of the axe was everywhere essentially similar. Those which Cook brought from Tahiti

consisted of a wooden handle with an appendage like a heel projecting behind ; the stone-axe, flat above and two-edged underneath, is attached to the front part, which



Polynesian implements : 1. Axe from Hawaii—one-sixth real size. 2. Adze with carved helve, probably from New Zealand. 3, 4. Hatchets from the Marquesas and Society Islands—one-sixth real size. 5. Obsidian spear-head from Easter Island—one-third real size. 6. Pair of compasses from the Society Islands—one-fourth real size. (1, 3, 4, 6, Christy Collection ; 2, 5, British Museum.)

falls away at a slant, by means of a string which is first wound round the handle, then crosswise over the blade and the projection. Much care is devoted to the

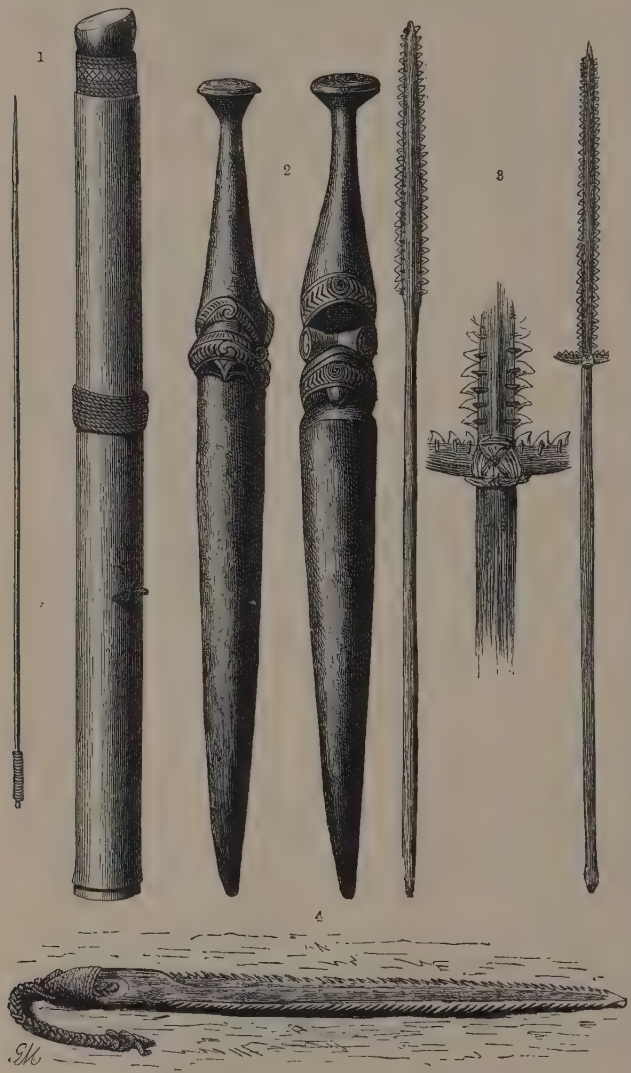
winding of this string, notably by the Hervey Islanders; though, except in the case of ornamental axes, the handle is not much smoothed. Of Micronesian axes the greater number have blades of shell, chiefly from *Terebra maculata* and *Tridacna gigas;* the broad back-bones of tortoises are also used. Curiously enough the Micronesians, as on Ponapé, overlooked their admirably adapted stone, never getting beyond shells. In the Marshall Islands the adze with semicircular shell-blade was preferred to the iron adze for hollowing out canoes. The polishing of the blade with sand or pumice is the task of the old men.

Thrusting-spears seem to have been formerly regarded by the Polynesians as their chief weapon. They were sometimes made of wood with the point hardened in the fire; sometimes strengthened with stone blades, the tail-spine of the sting-ray, splinters of bone, or sharks' teeth. For a long time they were twice the height of a man; where casuarina wood was lacking coco-palm was used. Spears were given away with great reluctance; they were wrought and adorned and ornamented with special care. Spears were equally the chief weapons of the Micronesians; they were armed with barbs made of sting-ray spines, human bones, the snout of the garfish, or sharks' teeth, but they are never so artistic as in Melanesia. These weapons serve for thrusting at close quarters: shorter spears sharpened at both ends were used for throwing; a spear thrower of bamboo is recorded from Pelew. Purely wood weapons include the sword of the Pelew Islanders, and the *pahu*, or dagger of hard wood, in Yap of reed, 20 inches or rather more in length, spatula-shaped in the handle, and gradually tapering, thence

Maori chief's insignia and sceptres—one-eighth real size. (Christy Collection.)

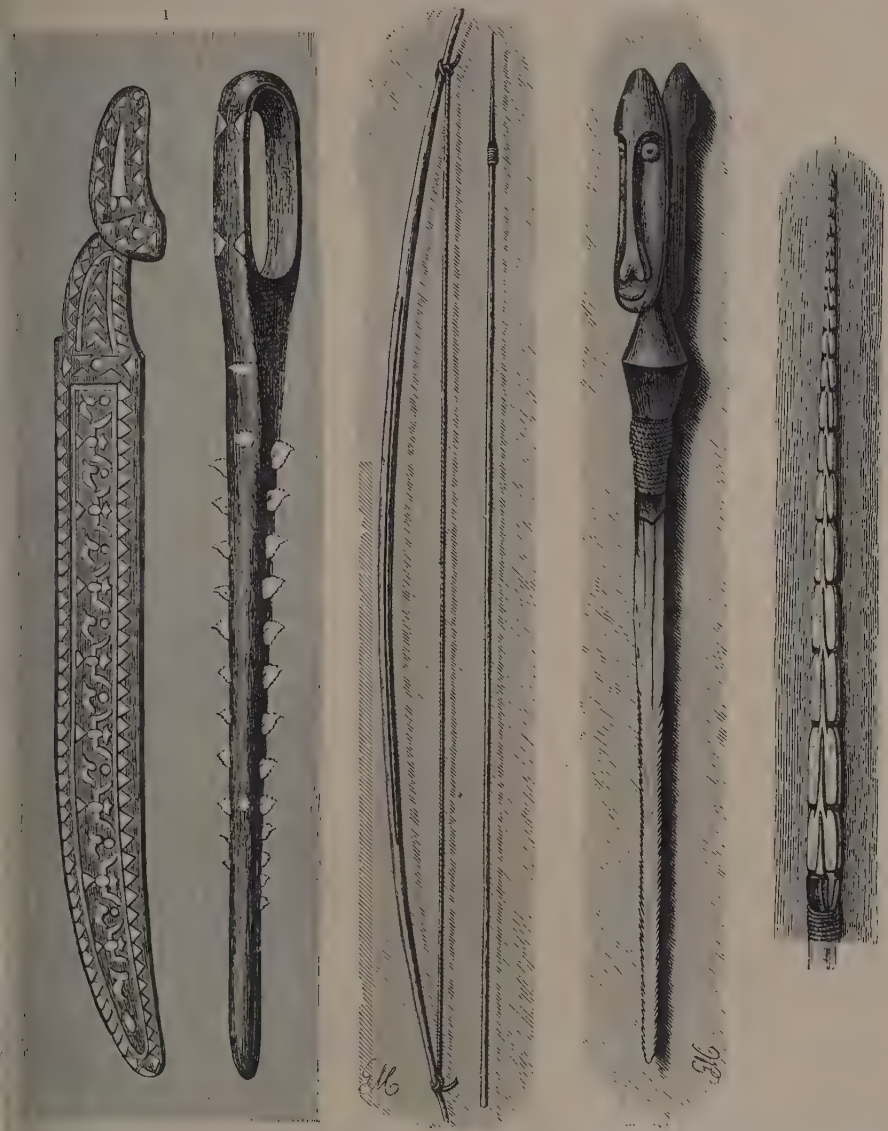
carried in a sheath of vegetable fibres; angular stone blades from 8 to 16 inches long afforded ponderous hand weapons.

Next to the spear the chief weapon is the club, generally made from heavy iron-wood. Its ornamentation makes it an interesting production of Polynesian art. It formed the main strength of the Tongans, the most beautifully executed type being the paddle shape, which appears to have become obsolete even in Cook's time, round in the handle, flattened above, often brought into a four-cornered shape by the strong accentuation of the middle rib, and either cut off square at the end or running out in an elliptical point. The whole club from the handle to the point is covered with carving, which either passes round in one spiral band, or forms a series of chequers divided by the side edges and the middle ribs, or else laid over and over each other in simple cross bands. The ornaments consist of straight or zig-zag lines drawn close together, a roughly indicated human form being nearly always present. Stars and crescents often appear, as well as figures of fishes and tortoises. They have a shank to hang them up by. Beside these richly carved clubs smooth ones are also found quite flat, paddle-shaped, with a ring below the blade, and others of a simple mallet-shape with short handle. "Paddles of honour" is a name given to paddle-shaped objects 6 feet long and



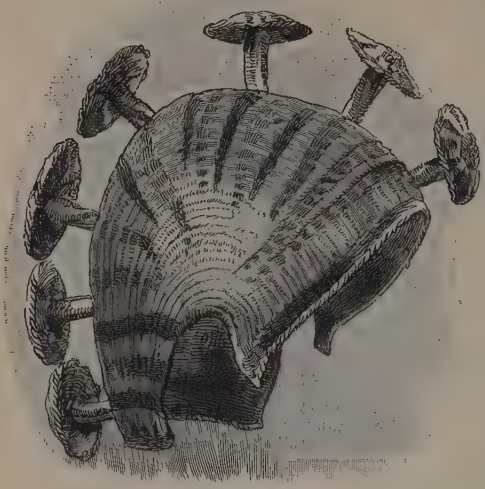
1. Quiver and arrow, said to be from the Society Islands—one-eighth real size (Christy Collection.) 2. Wooden dagger from New Zealand—two-sevenths real size (British Museum). 3. Spear set with sharks' teeth, from the Gilbert Islands—one-fifteenth real size (Munich Ethnographical Museum). 4. Saw, said to be used also as dagger, of ray-spine, from Pelew—one-third real size (Berlin Museum).

more, either carved in cross bands like the clubs, or sculptured in a fashion which reminds one of elegantly chipped flint instruments. The Marquesas Islanders



. Wooden swords from Pelew and Hawaii—one-fifth real size (British Museum). 2. Bow and arrow from the Friendly Islands—one-third real size (Christy Collection). 3. Saw of ray-spine, said to be from Pelew—one-third real size (British Museum.) 4. Bone spear-head—real size (Christy Collection).

are distinguished in the manufacture of these beautiful clubs; the blade of their paddle-shaped clubs, like almost every production of their artistic dexterity, contains a fantastically executed human countenance. But the most beautiful



Hawaiian wicker-work helmet—one-fourth real size. (Berlin Museum.)

paddle-shaped clubs were certainly made by the Hervey Islanders, who exaggerated the delicate cell-carving of the Tongans to the verge of the finikin. The Tahitians and the most closely allied tribes devoted much trouble to the polishing of their weapons.

The axes of the Hervey Islanders with perforated handles, or the over-elegant clubs of the Tongans, were obviously designed in the first instance as insignia of rank, and can only exceptionally have been used in fighting. The ceremonial axes of Rarotonga and Tahiti may also have been originally to some extent in use and have been, with their symbolically worked handles, preserved after the owner's death as a memorial. Spears also were converted into tokens of rank; among these the New Zealand sceptres of honour were conspicuous for length and decoration. They vary in shape between staff and paddle, the simplest being cylindrical staves with jagged longitudinal lines. They end in a more or less complicated knob, in the spirals and twists of which may always be detected eyes, or even a human figure. Axes, pipes, daggers, flutes, are often in no way inferior in ornamentation to these decorative objects, and yet they must have been in use. They show how the whole life and action of Polynesia was imbued in a dignified manner with religious images, symbols, and ceremonies. In the way of tools we find sharks' teeth set in a wooden handle serving

Small weapons with sharks' teeth from Tonga, dagger and baler from Hawaii and gourd bottle from New Caledonia. (Vienna Museum.)

for graving tools, also wooden bows with similar teeth at both ends for use in drawing circles.

Small weapons of sharks' teeth, intended for the cutting up of prisoners, served to gratify the horrible passion for torture; and were also employed in the self-lacerations practised by mourners in token of their grief. Perhaps we should reckon among these the implement made of the sting of a ray, shown in the illustration on p. 210, equally available as file or dagger. Weapons of sharks' teeth reached a fine development in the Society Islands and in Hawaii. The kind of forked sword made from a three-or-four-forked bough of casuarina, and set with these teeth, was regarded as the most terrible weapon. The Berlin Museum possesses a club from Yap, made of the bones of the whale, and set with rays' spines. The population of the Gilbert or Kingsmill Islands, by consistent progress in this particular direction, acquired a peculiar style in the manufacture of weapons, demanding both industry and dexterity. One might suppose they were a powerful race living in a constant state of war. The fitting of their weapons with sharks' teeth, which were fastened on with strings of coco-nut fibre twisted with human hair, appears like a further development of the weapon found among the Malays, consisting of the saw of the saw-fish. The necessary counterpart to this weapon-making skill is the armour. Closely plaited of string, coarse and thick, this must have been painfully heavy to wear, but was necessary if only to weaken the moral effect of the sharks' teeth. A helmet made from the prickly skin of the *Diodon* or porcupine fish completed this original equipment.

Bows and arrows were in Cook's time used only for hunting or in sport; and now they hardly exist in Micronesia and Polynesia. The bow of the Friendly Islands, which was only used to shoot rats, is yet a very fine weapon. It is as high as a man, beautifully made of polished firm wood, and fitted with a strong twisted string; but its companion the quiver has quite disappeared, and the number of arrows is reduced to one. The Pelew natives use, for pigeon-shooting, bows of mangrove wood with a string of fibre. In New Zealand, language indicates a former acquaintance with the weapon.

In the Gilbert Islands, Paumotu, and Easter Island, bows are entirely absent; and in the Hawaiian group they appear to have been re-introduced only in the course of the present century. It is, however, incorrect to say that, owing to the gradual cessation of hunting in these islands with few animals, weapons of long range held no place in Polynesian strategy. Next to the spear and the javelin the sling is the most frequent Micronesian weapon; slings of plaited twine, like those of Melanesia, are known in the Mortlock and Caroline Islands. Next to them come short throwing-clubs. In the Marquesas the sling made of coco-nut fibre, throwing stones, polished or angular, as big as hen's eggs, is among the most dreaded weapons. Clever slingers were in high esteem, and formed a special troop in the Tahitian army. At favourable moments they would advance beyond the mass of the host, and let fly at the enemy with loud shouts.

In many parts of Polynesia the variety of offensive weapons diverted attention from any care for defensive armour and other means of protection; battles had a ceremonial character, and the object of weapons was to make a warrior seem prouder and more terrible. Unfortunately we have no accurate description of the Tahitian equipment. The greatest value was attached to the head-dress. Among the Hawaiians this was an elegant helmet of feather-work; among

the tribes of the Austral Islands, of a fantastic shape. To attack the wearer of a conspicuous head adornment was reckoned a heroic action; his fall often decided the engagement. Another article of Tahitian uniform was a collar decked with feathers and shells, which served as a breastplate. Parkinson saw Gilbert Islanders ready for fight, with the hard dried skin of a ray wrapped round breast and belly under their coco-fibre armour, and on the top of all as much cordage as could be got on. They themselves, with their ray-spined spear 20 feet long, did not advance, but only stimulated the fighters. In Tongatabu Forster found a large flat breastplate made of a round bone, probably that of some kind of whale; it was 20 inches in diameter and beautifully polished. The Marquesan adornment of the same kind consists of pieces of a light cork-like wood, tied into a half-ring, fastened with resin, and set with red *abrus*-beans. Among poorer races this breastplate seems to be replaced by a shell. In the flat shell, often ground to a tooth-shape, which many Polynesians wear hanging on their breasts, we may perhaps recognise a reduced form of this.

§ 5. THE NEGROID RACES OF THE PACIFIC AND INDIAN OCEANS

Distribution—Traces of an earlier more extensive distribution in the Indian Ocean—Colour; Skull; Hair; Bodily build; Resemblance to Negroes—Alleged race of Dwarfs—Relation of Papuas and Negritos—Misunderstanding of the name Alfurs—Character and mental qualities of the Melanesian population.

CROSSING the eastern boundary of Melanesia, we at once come in the Fiji Islands across a plainly negroid race, the traces of which to the eastward we have already mentioned (see p. 147 *sqq.*). Beyond the region defined as Melanesia, it is found in the interior of India and Ceylon. In the Malay Archipelago it extends westward as far as Timor; when we get to Lombok we find Malays. To one particular group, the Negritos, may be with much probability assigned an extension to east and north formerly much wider. The inhabitants of the interior of the Philippines, who live in a state of warfare with the Malays who invade the coast districts, belong to this group. The Aborigines of the Andamans are nearly akin, and some profess to point to traces of the race in the Mariannes and in Micronesia. Qurtrefages found his so-called "Mincopie-Type" even in the Japanese skull, though in an attenuated form. Remains of negroid tribes are also said to be known in the interior of Malacca and in India. This dispersed and fragmentary occurrence of the dark element has suggested to many observers the view that we should see therein an earlier population of these and neighbouring regions, for which the continent of Southern Asia formed a bridge between the Indo-Pacific and the African domains of the Negro. Upon this the lighter men were superimposed in a broad layer, leading on the mainland to every possible degree of crossing. Here also we must guard against any cut-and-dried notions with respect to the relations of ever-shifting races. The Papuas made forays against Asia, and came in great numbers as slaves to Ceram and the Eastern part of the Malay Archipelago. In this way we may explain in some measure those races not woolly-haired, but crisp or curly-haired, which, starting from Ceram, have made their way among the straight-haired population. The name Alfuros or Alfurs has nothing to do with these

(1-3) Necklaces of shell and beans, with limpet-shells. (4 and 5) Ear-pendants, with dolphin's teeth. (6 and 7) Ear-buttons of whale's tooth. (8) Necklace of tortoise-shell. (9) Neck ornament. (10) Necklace. (11) Wooden fillet for the head. (12) Ear-button made of a ray's vertebra. (13, 14) Armlets of black wood and whale's tooth. (15) Neck ornament. (16) Necklace of shell-disks and whale's tooth. (1-7, Marquesas; 8 and 15, Friendly Islands; 9, Hervey Islands; 10, 11, Society Islands; 12, Easter Island; 13, 14, Hawaii; 16, Nukuor.)

is constantly being insisted on; 260 years ago Tasman expressed it by saying that they only differed from Kaffirs in having less woolly hair. Observers like Finsch and D'Albertis take every opportunity of rejecting the notion of a special Papuan race; the prevailing type of the Melanesians is only a slight variation, recognisable by the greater abundance of hair on the face and body, and by peculiarities in the features. In the larger archipelagos the natives display various departures from the type which may be referred partly to Malayo-Polynesian crossing, partly to the influence of their surroundings. Not to mention Fiji, with its patchwork of races, the New Hebrides unfold before us a real book of patterns. On the Southern Islands the inhabitants are better developed than in the north; on Tanna they are handsomer, bolder, and of finer character than elsewhere; on Api they are lean, ugly, and very tall; on Erromango they are very short. Even in maps of the sixteenth century there appear off the coast of New Guinea *Islas de Mala Gente* side by side with *Islas de Hombres Blancos*. Thus it is impossible to speak of a geographical division of these dark races into one group of eastern dolichocephalic Papuas and one of western brachycephalic Negritos, for the conditions under which the latter dwell are even less favourable to the production of unalloyed characteristics.

With their widespread distribution we shall expect to find them dividing up into sub-races. Here we are justified in inquiring into the relation which they hold towards the Australians. Certain points of agreement are obvious—dark skins, pronounced hairiness, beards; besides this we have relationship of language. We may admit the variety of the Australian race, and that Australia has probably been invaded by elements from New Guinea and Polynesia. It is not the case that the woolly-haired Australians are confined to the north or north-east; there are many Australians who come nearer than the Papuas to the mixed Polynesian breed. Independently of the differences and transitions called into existence by Polynesian immigration, leanness of the arms and legs, bad proportions, an ill-nourished condition, are noticed as approximations to the Australian type. Besides this we find also physiognomies reminding us of Indians, Jews, or Europeans.

Man of New Ireland. (From the Godeffroy Album.)

Great confusion has arisen from the application of the name Negritos, especially to the inhabitants of the Philippines, a mixed dark race with straight hair. One view with regard to these Negritos may be summarised in the statement that they are for the most part brown men, with curly (seldom woolly) or even straight hair—a race of the mountains, the forests, and the chase and departing from the Malayan race-type in respect more of their social and geographical position than of any anthropological marks.[1] When the Spaniards came to the Philippines they found Malays on the coast, Tagals more inland; and in the mountains, the Aetas, who were driven back and decaying. Con-

[1] [Dr. Meyer, the most recent authority on the subject, holds a totally different view. See his *Die Negritos der Philippinen.*]

sidering the wide diffusion of Negroid elements, it is not astonishing if they have mingled in this socially inferior group of races; they are found also in other regions in which both Malayoid and Negroid elements are included. The darker population in the east of the Malay Archipelago at least reminds us, in a certain hybrid character, of the Negritos, as found in Halmahera or Gilolo, and the interior of Great Nicobar. In the Malay Peninsula the Negroid element reappears more clearly. On other islands of this region, too, we meet with a race, swarthier than the other inhabitants, slim and tall, with woolly or crisp hair, living in the mountain districts of the interior. They were known as Harafara or Alfurs. But if the distinctions between the tribes who have been driven back into the interior and those who live on the coast are often, even in small islands, as great as those between Bushmen and Hottentots, the effects of social and political distinctions take precedence of distinction of race. The Orang Panggang and Orang Semang in the interior of Malacca are described as little men, mostly dark, with crisp hair. Maclay compares them with the Negritos of the Philippines, and speaks of "men of pure Melanesian blood among them."

Fijian lady. (From Godeffroy Album.)

A claim to form a group by themselves is made also by the small races diverging in many respects from the Papuan type, who live in the western part of this area of diffusion. The Andamanese may pass as their typical form. The face has a benevolent, gentle expression; the forehead is arched; the eyes are round, and set horizontally; the nose is small and straight; the lips not strikingly prominent.

In India dark men are numerous, extending far to the north. The assumption that we have here to do with a great racial struggle in former times has been strengthened by the poetical exaggerations of tradition, which draws a sharp contrast between the combatant races, as black and white; deriding the flat and noseless countenances of the dark foe; and even depicting them as apes. But thorough research has always tended to lighten the dark colour of this race, and raise their level of culture. Indeed, the important and talented race called Tamils belong to this group. Some have thought fit to reckon the blended little race known as the Veddahs of Ceylon among the most degraded of the earth; but the more evidence comes to hand, the clearer it becomes that they are not even so dark as many Tamils; that, as regards the face, the distinction is small between them

and the highly-civilized Cingalese; that their hair is not at all the woolly hair of the Negro; and that their language is an Indian dialect full of Sanscrit words, and alloyed with Dravidian elements.

Must we then perhaps look for the real negro element in the small crisp-haired men or black dwarfs who are said to live in trees in the Athrumalli mountains of South India? Jagor has drawn these tree dwellings (see p. 108), but they only serve as places of refuge; otherwise these ill-famed people live in regular villages. If in the descriptions of them it has been again and again pointed out that they live on products of the jungle, eat mice, dwell among the branches, worship demons, nevertheless social debasement and anthropological degradation remain quite distinct things, and if the Kaders, the Nairs, and other mountain tribes of South India are depicted as thick-lipped dwarfs, the example of the Veddahs shows us how much these random descriptions can be depended on.

Fijian gentleman. (From Godeffroy Album.)

Even the fact that some of these tribes file their teeth to a point, while others live in polyandry, and observe the Tamil custom of inheritance through the mother, or that men and youths live separately in one great house, need not give them any lower a place in our eyes. Traces of these customs run through all mankind, even the traces of cannibalism in the mountain tribes of Assam are not astonishing. A more important fact is that some of them have used stone weapons and utensils even to our own time, and in connection with this we remember that traces of the Stone Age, probably recent, are found in the whole region of the eastern Indian ocean, where iron now has the upper hand. Some of the dark races of India have quite recently made advances which are still compatible with relics of their former savage forest life. The Santals of Lower Bengal have not only learnt to till the ground, but have adopted the plough, and in the course of a century have from hunters and brigands become a peaceful people of more than a million souls. The Khonds, who dwell farther to the south, no doubt carry on their agriculture still in a semi-nomadic fashion, some communities migrating every fourteen years; but they have become peaceable and have abandoned their human sacrifices. The 46 million Dravidians of South India include, beside some poor nomadic tribes, a great majority of races

who may be reckoned as props of Indian civilization in the same sense as the Aryans.

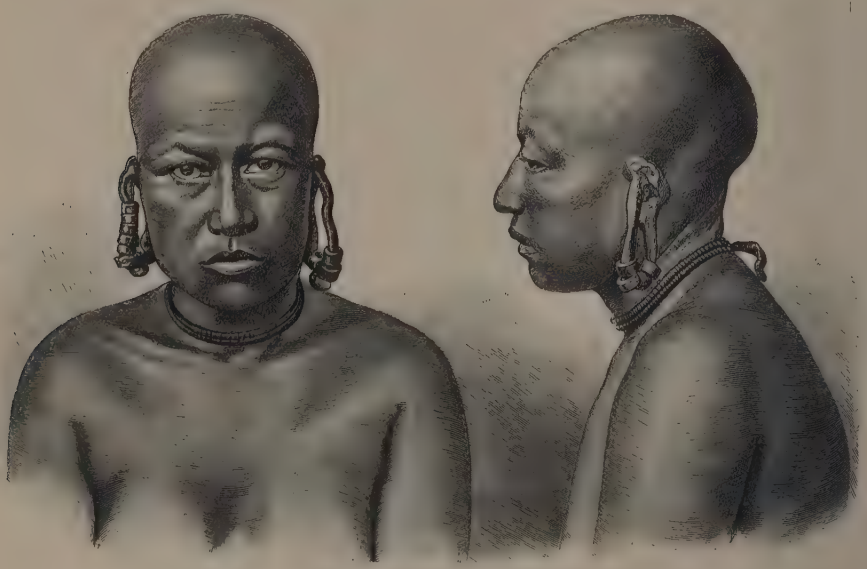
The difference between the Melanesian character and the Polynesian has often been noted. It lies essentially on the Negro side. Their bodily resemblance is paralleled by a mental one. The Melanesian is more impulsive, more frank, noisier, and more violent than the Polynesian. In cases where he appears in less favourable light, the key to many contradictions is to be found in a pride which at one moment is elated, and at the next has a keen scent for anything like injury. Those who know the Fijians best depict them as the vainest of all men. A casual utterance will cause a woman to sit down in the public place of a village, shed tears without end, and fill the air with lamentations and a flood of scolding and threatening language. The cry will be heard from the top of a hill, "War, war! will no man kill me that I may go to the shade of my father?" All rush to the spot and find a man in the depths of grief because his friend has cut off a yard or two from a piece of bark cloth belonging to them in common. Suicide is not uncommon. Closely connected with pride is swagger, often shown in the compilation of fantastic pedigrees. The arts of diplomacy thrive in this soil; these hot-blooded natures have a capacity, which one would hardly suspect, for clothing themselves in an impenetrable etiquette. The forms of good manners are strictly observed.

Woman of the Anchorite's Islands. (From the Godeffroy Album.)

The frequency of theft is well known, but it is chiefly directed against strangers. Native plantations are to natives inviolable; yet so powerful a motive is covetousness, that the plundering of a grave is no uncommon event, even when nothing more than a few rags is to be got by it. It sometimes happens, however, that a person caught in the act of committing this crime gets burnt or buried alive.

Revenge may form the most important duty in life for a Melanesian. If a man is injured he puts up a stick or a stone where he can see it, to keep him constantly in mind of the duty of revenge. If a man abstains from food or keeps away from the dance it is a bad sign for his enemies. The man who goes about with his head half-shaved, or, in addition to this, allows a long twisted bunch of hair to hang down his back, is thinking of revenge. Sometimes a bundle of tobacco hangs from the gable, which is only to be smoked over the corpse of an enemy, or the bloody clothes of a slain relation preserves the memory of an unatoned deed. Nor is there any lack of friends to keep a man in mind of his duty with songs either lamenting or censuring. Open violence is not the only means of appeasing revenge. Hired assassins are employed, or

magical devices with sticks, leaves, or reeds, are adopted. A dead man often takes a whole generation with him; his wives are throttled, and his mother often shares the same fate. Treacherous and bloodthirsty acts, such as have earned a bad reputation for the Solomon Islanders in particular, may often be referred only to expiation for some injustice suffered. There is no abstract word corresponding to our "Thanks," it is even regarded as good manners for the person who receives a present not to betray any feeling. People when they meet greet each other with words like, "You are staying," "Go on"; rubbing of noses is only found among the Polynesians, kissing was originally unknown. The Banks Islanders use as a familiar greeting a sounding smack with the hand.

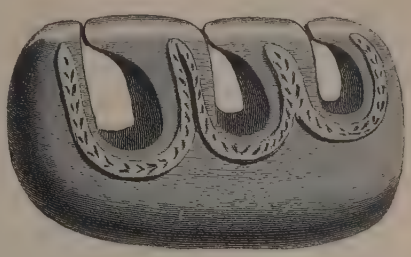


Woman of the Anchorite's Islands. (From the Godeffroy Album.)

The degrees of activity and prosperity are numerous. In Mallicollo and New Caledonia the people are poor and lazy. On the other hand those of Fiji and New Britain are proud of possession and greedy for gain; quite ready to beg of strangers, but clever in trade. Our ethnographical museums possess an astounding wealth of works of art from certain favoured spots; of which we need only name Astrolabe Bay and the little D'Entrecasteaux Islands. Though outward appearance is indistinguishable, there are poor people, well-to-do people, rich, very rich, just as with us. The saying is, as Finsch tells us, "He is worth ten or more rings of *diwarra*." We have already contradicted the unfounded assumption that the Melanesians are an altogether weak, backward-driven group of races; and need here only recall a remark of D'Albertis concerning the inhabitants of Hall Sound in New Guinea, who have come but little into contact with civilization: "We may have many reasons for calling them savages; but they live in a state of relative comfort and good fortune which one might almost denote as culture."

Dull and barren stupidity does not characterise the mental endowment of the

Melanesians. German observers have drawn special attention to the capacity of the Bismarck Islanders for education. In judging of their intellectual nature we must overlook neither the acuteness of their senses nor their inventive faculty. These "savages" find tools, twine, packing materials, where the white man is at a helpless standstill. To their keen practical eye Nature seems a storehouse of useful articles, where what they require at the moment is constantly at hand. Figurative language is everywhere in use; and by means of obsolete or borrowed words it has attained the position of a regular poetic dialect. In the Banks Islands almost every village has its poet or poetess, whose performances do not remain unrewarded. Death is often referred to as "sleep," and fluids that have become set as "sleeping"; they speak of dying as a sunset, and denote ignorance by "the night of the spirit." For modesty they employ the term by which they indicate the gentle half-tones of evening light. To reef the sail is to fold the wing. If their feeling for Nature is less than might be expected when we look at their noble landscapes and their beautiful flowing seas, their poetry and their art make free use of these in description and picture.



Musical instrument from New Ireland—one-third real size. (Godeffroy Collection, Leipzig.)

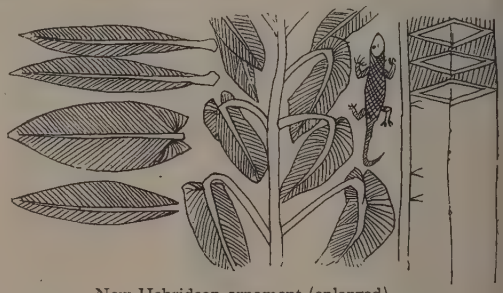
1. Spatula for betel-lime from New Guinea—one-half real size. 2. Drum from Pigville in New Guinea—one-eighth real size (Christy Collection). 3. Drums from Amboyna in the New Hebrides (after Codrington).

Apart from its didactic, proverbial, brief terms of phrase which betray keen observation and wit rather than fancy, Fijian poetry finds its most characteristic expression in the so-called *Meke*, a name which implies both song and dance. To only a few elect is it given to invent these; and those allege that they are carried in their sleep to the spirit-world, where divine

beings teach them a song with the appropriate dance. The ideal of the Fijian poet is regular measure and every verse ending with the same vowel. This he seeks to obtain by arbitrary abbreviations and lengthenings, by the use of expletives, omission of articles, and other poetical licenses. Seldom, however, is a poem achieved like that recorded by Mr. Williams, consisting of eighteen verses all ending in *au*. In the historical and legendary ballads the disposition towards exaggeration often takes a grotesque form; nor are interpolations often lacking, to bring in some quite irrelevant bit of coarseness which for the general public constitutes the main attraction of the poem. The ballads are chiefly sung at night, with the inevitable dances; but so great is the love of the Melanesians for song that they sing at their field-work or when rowing or walking about. As a rule one sings a verse and the chorus repeats it.

Carved coco-nut from New Guinea—one-half real size. (Christy Collection.)

Melanesian music on the whole resembles Polynesian. Musical instruments are absent only from the smallest islands. The prevalence of the drum in all forms reminds us of Africa. A small drum, made from a bamboo with a slit in it, and beaten with a stick, is carried especially by the women, in order to announce their approach on occasions at which they are excluded. From New Ireland we have a peculiar wooden instrument from which a vibrating tone is extracted by drawing the flat hand along it. The people of New Britain had pan-pipes varying in size and number of pipes; Jews' harps of bamboo are also found in the Solomon Isles. There, too, on festive occasions, bands composed of twenty men perform, more than half of whom play wind instruments, reeds fastened twenty-three in a row, and straight flutes of bamboo some 3 feet long by $2\frac{1}{2}$ inches thick, from which they extract two or three tones with chords of thirds or fifths. The others beat large bamboo drums with a stick. The principle of the Melanesian drum is a bamboo cane or a hollow stem with a narrow slit on the thin edges of which it is beaten. Each of these drums is one size smaller than the next, and gives a note different by an octave from that of the next. The flute is forbidden to women, —indeed superstition says that they die if they see it, and the same with the bull-roarer. Among the Tugeri a signal whistle is found, made from a small coco-nut, with several holes bored in it.



New Hebridean ornament (enlarged).

The dances often agree even in details with those of the Polynesians. At funeral festivities they dance round a drum with a human countenance to represent the departed. Sometimes the dancers consider themselves to be ghosts; dancing is also a diversion of ghosts. The individual movements consist of bowings and swayings, or jumping up and down; but they also have mimic war-dances, executed by two ranks of men armed with spear and shield. Masks are worn at these, and if they are beast masks we get an idea very like that of the Dance of Death.

Bit of etched design on a coco-nut, from Babel in the Solomons. (After Codrington.)

The Melanesians are often spoken of as among the races who cannot count beyond three or five, but numerals for ten are found everywhere, and in New Britain the money reckonings extend to sums which would make us look for numbers higher than a hundred. A kind of knotted cord-writing and similar aids to notation are also not absent here.

In the calculation of time and the observation of the heavens, some groups of the Melanesians have much the same knowledge at their command as the Polynesians have. In New Guinea the year is divided by the changes of the monsoon; months and longer periods are distinguished according to the labours of the field; but we find also a division according to the position of the Pleiads, the reappearance of which in the northern heaven betokens the return of spring. A large number of constellations denoted as the Boat with its Outrigger, the Bow-bender, the Bird, the Hunting Brothers, serve to obtain bearings in navigation, and to indicate the time of night. We have already spoken of the navigation of these races on p. 166.

Of writing we know only traces, in the picture-writing as scratched by the New Caledonians on bamboo, or engraved by the Fijians as well as the Tongans in the shape of little figures among the ornamentation of their clubs.

§ 6. DRESS AND WEAPONS OF THE MELANESIANS

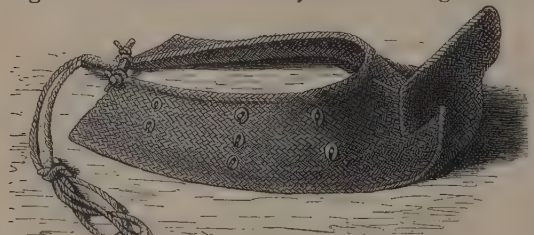
Clothing—Tattooing and painting—Dressing of the hair—Ornament—Great number and variety of weapons—Spears—Clubs—Stone clubs—Axes—Bow and arrow—Smaller weapons—Defensive armour.

THE clothing of the Melanesians seems to justify Peschel's law that clothing varies among men inversely as the darkness of their colour. The darker Melanesians

are in general less clad than the lighter Polynesians. Their ornament is all the richer and more various, and the woolly hair especially brings with it a greater variety of hairdressing. We find men in Melanesia very scantily clad, and there are not lacking trustworthy reports of some who are completely naked. The Adamic costume of the men in the Banks Islands, however, standing in sharp contrast to their skill in weaving mats, places them very low in the estimation of their neighbours, though among these also, so far as they are Melanesians, limited clothing is the rule. Where clothing is more complete we are sure to find traces of Polynesian and Malayan influence. The foundation of the Melanesian man's dress is a belt, either platted or made of bark, passing from the hips between the legs; while the women wear one or two aprons of fibre from grass, palm, or pandanus leaves. These elements recur everywhere, and the idea of what is becoming and respectable in clothing is essentially concentrated upon them. But the notions of modesty are extremely various. The people of Massilia on the Finsch coast wear a broad bark girdle passing twice round the body.

Wigs of human hair worn in battle, from Vanna Levu. (Frankfort City Museum.)

Of a higher kind of dress, which may be called that of the Polynesian colonies, Fiji affords the best examples. Here the *tapa* material renders a richer style of clothing possible. The wrapping which passes between the thighs is of such breadth and length that it extends to a couple of hundred feet. The usual measure is of 12 to 20 feet; it is wound several times round the loins in such a way that the ends hang down to the knee in front, and lower behind. In West Melanesia, also, *tapa* is indeed



Head-dress like an eye-shade from New Guinea—one-fifth real size. (British Museum.)

made in the Southern Solomon Isles from the paper mulberry; in the New Hebrides and New Guinea from the sacred fig-tree. Instead of the printed pattern, as shown in the cut on p. 183, we here find the stuff streaked with colour and moistened with the tongue or teeth.

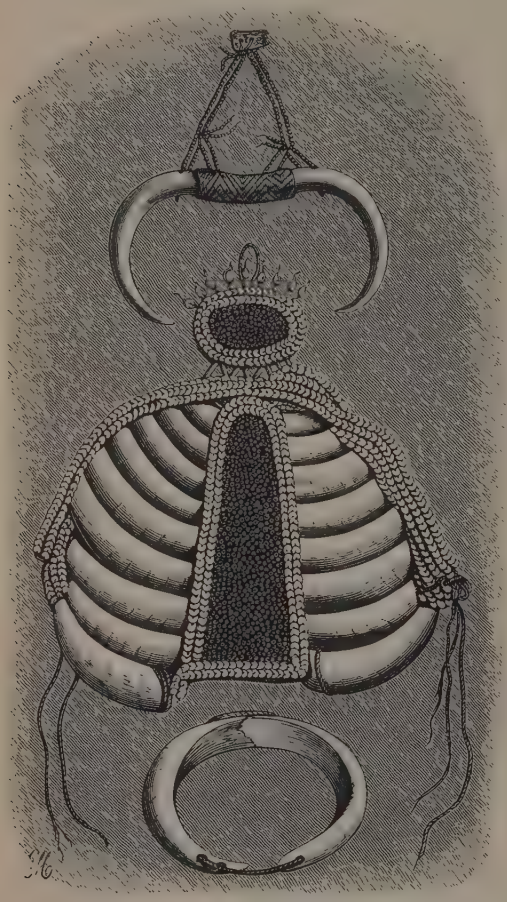
The tattooing in Melanesia is only in isolated instances of the artistic character

Fiji warrior in a wig. (From the Godeffroy Album.)

ound among the Polynesians. It has more affinity with the Australian type of icatrised wounds than with the Polynesian punctures, and it is often not applied ntil the age of maturity. Among the light-skinned Motus of New Guinea we ind tattooing in patterns recalling those of Micronesia. On the south coast of Jew Guinea Miklouho-Maclay found even the shaven scalps of the women covered vith tattooing. Where there are indications of a mixture of Melanesians with 'olynesians, it has been thought that the races may be distinguished according o their respective methods of tattooing. For example, in the islands off the astern point of New Guinea, in the Solomon Islands (where the cicatrised

tattooing has been observed only in Bougainville, Isabel, and the Southern Islands), and in New Ireland. Men and women are often differently tattooed: in girls tattooing indicates that they have reached nubility; in men, the slaying of a child is one of the things announced by the tattooing of the breast on one side. In tattooing, also, East and West Melanesia represent the extremes which in the central parts are mingled.

In Fiji the puncturing with the four or five-toothed instrument is limited to women, and in them to particular parts—the lower part of the body and the thigh, the corner of the mouth, and the finger. It has a religious suggestion, and is enjoined by Ndengei. But here, too, cicatrices appear in conjunction with it, produced as a rule by means of shells. In certain localities of West Melanesia the other kinds of tattooing are almost excluded, or at all events reduced to a minimum. Among other mutilations of the body, we get distinct reports of circumcision only from New Caledonia, the southern New Hebrides, and Fiji, which appears to have been the starting-point in comparatively recent times of its extension westward. In Finsch Harbour it is performed with much festivity, the women being banished into the forest until their boys' wounds are healed; afterwards the patients go to live there. The custom of cutting off joints of the finger in times of mourning or sickness is almost universal. To go with the whole or half of the face and the breast painted with red clay is a practice usually confined to men, as also is that of blacking the body with a kind of earth which gives a lustre like black lead. Old women also are occasionally seen blacked: among the Motus this is said to be a sign of mourning. In warlike enterprises face and body are painted in stripes of white, yellow, red, and black; in Fiji this custom has been brought to a high point of art; the not very cleanly Maclure Papuas are reported to smear their bodies with clay.



Nose-ornament, breastplate, and arm-ring of boar's tusks, from New Guinea—one-eighth real size. (Christy Collection.)

In Melanesia all hair is sedulously plucked out from the body, while the treatment of the hair of the head with caustic lime is quite as general as in

Polynesia, at times carried even further. In Fiji the crisp black hair is towzled up, and great pains are expended upon colouring it with charcoal or lime; then it sometimes surrounds the head in a strong turban-like pad, or else reminds the observer of a full-bottomed wig, as also in New Guinea; while at times it hangs down in the form of numerous thin strands or wisps. On the other hand, in the Anchorite and Solomon Islands the hair is in some cases shaven, in others plaited into top-knots stuck together with gum, and often coloured red, black, yellow, or white, but constantly adorned with feathers, flowers, shells, or tastefully ornamented cones of bamboo. White parrot's feathers stuck on the top of the head are signs of rank; in Malicollo the hair is dressed in porcupine fashion, wisps as thick as the quill of a pigeon's feather being wound round with the bast of a kind of creeper; artificial wigs are also prepared from the coloured fibres of plants. In Fiji, persons of eminence have private hair-curlers, who are occupied for hours every day in the preparation of the wigs. The geometrical accuracy of the individual details, the rounded softness of the outlines, the symmetrical dyeing with shiny black, dark blue, grey, white, red, yellow, have often been mentioned with eulogy. Beside hairdressing, head-dresses of various descriptions occur; the Hattams of New Guinea wear a little cowl with coloured feathers woven in, and Cook found among the naked New Hebrideans small caps of woven mat. In Fiji a turban of white *masi*, from which a piece of cloth falls down at the back, or two lappets over the ears, is indispensable for a man of rank. Open-work caps made of a piece of matting adorned with strips of dark bast are customary in New Ireland and New Hanover; woven eye-shades are found in New Guinea.

A great part of the wealth of these races consists of ornaments, and since these find extensive employment as a medium of exchange, trade tends to increase the production of them. The greatest amount of ornament falls to the share of the men; the younger women wear little, the elder go almost unadorned. For instance, the eye teeth of the dog are held in special esteem among the Melanesians; but, while the man covers his entire breastplate with them, the wife wears at most one or two in her ear. Ears, nose, and lips are bored to receive ornaments. The Papuas of Hood Bay wear a band of pearls at either end of a thread which is passed round the head. In Makira, Rietmann saw a young flying-fox used as a lady's ear-ornament, with one foot attached to the lobe of the ear. Among the Tugeri, pigs' bones some 8 inches long are worn in the nose. Polynesian influence is probably to be seen in Sikayana, if, as alleged, nose and ear ornaments are not in use there. In general, the employment of shells in ornament diminishes as we proceed eastward. In Fiji, as to some extent even in New Britain, whales' or cachalots' teeth turn up as the article of ornament or value that is most in demand. They occur often in entire necklaces. Corresponding to these is the employment in New Britain and elsewhere of shell-money in the form of gigantic ear-pendants.

Melanesians wear white arm-rings, some 4 inches thick, of *Trochus* shell; in New Guinea these serve the further purpose of receptacles for the cassowary-bone daggers. They are laboriously ground out on sharp splinters of coral-rock. The Solomon Islanders wear spiral bands of a *liana* which comes from Buka, on the left arm, as a protection against the recoil of the bowstring, and also as insignia of a chief; they wear, too, combs made of the stiff reddish-brown stalks of a grass, woven together with fibre in elegant patterns. Feather-ornament

displays great luxuriance in New Hanover, and much taste is shown in the combination of forms and colours with vegetable fibres and beads on sticks. For example, a delicately-formed face in feather-mosaic will be seen forming the head of a hairpin. In New Guinea the work is on a larger scale, and loses in elegance, even when it consists of an entire bird of paradise on a stick, as is found at Astrolabe Bay. In Tagai, pouches of varnished palm-leaf are made to preserve these costly adornments. Favourite gauds in Simbo, Ulakua, Choiseul, and Guadalcanar are plaited frontlets with large white shells, or chains similarly worn of porpoise's or dog's teeth. A rosette of yellow and red cockatoo or parrot-

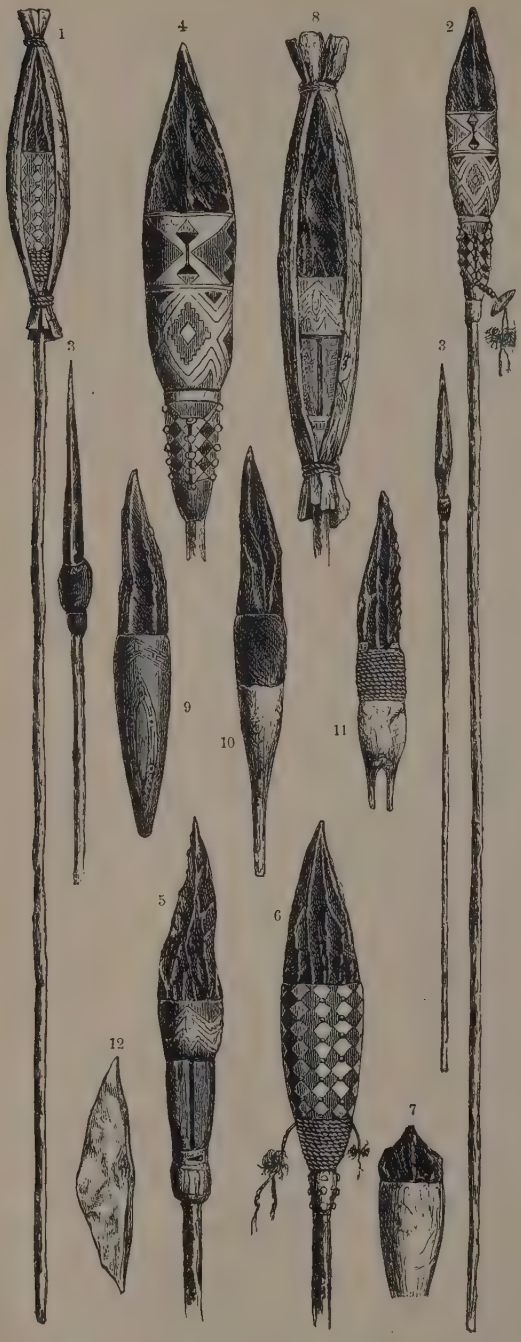
Shell plaques for adorning the breast and forehead: 1. From the Solomon Islands—one-third real size. 2. From the Admiralty Islands—one-fourth real size. (Christy Collection.)

feathers, frequently smartened with shells, is bound on the forehead, and serves at once for ornament and for defence; it often consists of a thin polished piece of *Tridacna gigas*, on which is laid a piece of open work in tortoise-shell. Among the Admiralty Islanders disks of shell appear in great numbers as breastplates, hung from the neck. Both in form and material these ornaments testify to great assiduity, to which the high esteem in which they are held corresponds. They extend from Madagascar to Hawaii, and have found their way into the heart of Africa. From them taste evolves every sort of combination. Simple necklaces, plaited from variegated straw or bast-fibres, or made from teeth, even human teeth, berries, fruits, and so forth, are found, as well as more costly kinds. Among New Guinea ornaments boar's teeth play the most prominent part; in

the northern parts of the island the naturally-curved tusks being the decorative objects most in demand. Compared with these the neck-threads of plaited grass, even with small shells or seeds strung on them, are inconspicuous ; but the chains of human teeth, dogs' incisors, or cut shells often produce quite an elegant effect. In the Solomons, chains consisting of twenty to twenty-five pieces of various coloured shells, mingled with human teeth, or of little shells strung at regular distances on coco-nut fibre, are highly esteemed. In these instances the transition from ornament to currency is not remote. On Florida, in the Solomons, a string of red, white, and black shells seven yards long or so is the price of a wife. At Finsch Harbour beads of small polished snail-shells are worn round the neck, in New Britain round the hips, in the Admiralty Islands as aprons. Finger-rings of silver, pinchbeck, or gilt brass have been introduced by traders. The Solomon Islanders carry tobacco and other small articles in their plaited arm-bands ; while in Nissan the people invariably carry their betel-lime in a small coco-nut or gourd fastened by a short string to the left little finger.

Men are seldom seen in Melanesia without weapons. Every group of islands has its own patterns, though the actual weapons—spear, bow, and club—are everywhere the same. They are, however, unequally distributed, or else other weapons of more limited distribution occur. The weapons of Melanesia unquestionably are some of the choicest productions of dexterity and taste found among the lower races, as our plate of Melanesian and Micronesian weapons and utensils will show. Their neatness, variety of form, and actual number are wonderful. It is an unexplained departure from the rule that, on the single island of Api or Tasika in the New Hebrides, no weapons are carried.

In Melanesia, again, the most esteemed and most generally-used weapon is the spear, the forms of which, as Strauch says when speaking of the Admiralty Islands, are as various as the faces of the inhabitants. Plain but carefully-worked javelins, as found in New Caledonia, may be regarded as the simplest representatives of this weapon ; thongs of plaited *tapa* are used in the manipulation of them. But the most finished productions of the New Caledonian armourers belong equally to the spear-class. Curiously enough it is not the "business end" of the weapon, but the shaft, to which the greatest attention is devoted. The fundamental type remains a staff, reaching sometimes a length of 10 feet, and pointed at both ends. The modifications consist merely in the addition of a carved human head, repeated as often as four times, below the point ; or in wrapping the shaft in the same region with whitish *tapa* or bat's hair ; a stick wound with string, and with a long string attached to it, is bound into this ; while, in addition to the wooden point, a ray's spine is let in to form a secondary point. In New Britain they wind simple bast round it, and attach a tassel of vegetable fibre, ornamented with feathers. The butt is sometimes provided with a hexagonal knob, or terminated with the bone of a cassowary or a man. Of these spears there are two of larger size intended for throwing. In New Ireland the brown polished carved kind are more frequent than in New Hanover, and near Port Sulphur we meet with spears decked with feathers and human bones like those of New Britain. As a rule the spears are slim and pliant ; but a broadening of the head, accompanied with perforation, occurs, especially in Fiji, under various patterns. On the whole, however, where the spear is ornamented the head remains simple. Here, again, the Solomon Islands show the most advanced development. Besides spears

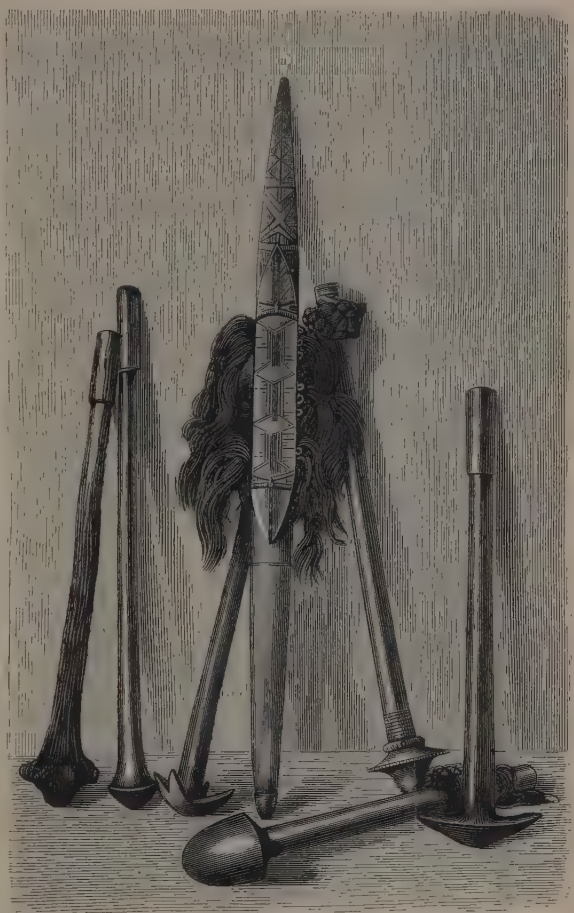


Weapons from the Admiralty Islands: 1, 2. Spears with obsidian heads. 3. Javelin with the same. 4-8. Spear heads. 9-11. Obsidian knives. 12. Knife of mother-of-pearl shell. 1-3, one-tenth, 4-12, one-sixth of real size. (Christy Collection.)

ornamented with pieces o mother-of-pearl fixed in mastic the islanders have their spear heads artistically carved from human arm-bones or the lowe jaw of the toucan. New Guinea possesses both spear pointed with cassowary bon and simple sharpened shafts The former are heavy war weapons, for thrusting, 10 fee long or more; the latter light and intended chiefly for fishing Unornamented spears with points toothed like saws either two or four-edged, repre sent hunting or fishing imple ments rather than warlik weapons, and form the transi tion to the fish-spears with fou or five barbs, attached to heavy, roughly-worked shaf by means of plaited palm fibres. Spears with opposit rows of barbs occur only i Fiji and the New Hebrides There the heads are perforated forked, jagged, wavy, lami nated—in a word, wrough into every sort of shape. Fre quently they consist from en to end of fine wood, which exactly in the heaviest place is carved into a piece barely attached. Spears of this kin are intended more as orna mental weapons, to gratify th bearer's pride, than for the foe

In the Admiralty Island the abundance of obsidian an bitumen affords the means fo a development in the manu facture of stone weapons which in one direction supple ments the general level a which the inhabitants of New Guinea and the neighbouring islands stand in respect of thi

art. Here, too, spears have reached an extraordinary perfection. The head consists always of the choicest pieces of a granular striped basalt, and is attached to the shaft by means of a copious layer of bitumen and string wound close with great care. The bitumen bed which gradually thins off towards the handle is either decorated in simple geometrical lines with the spaces coloured black, red, and white, and set with little shells, or perforated with a diamond-shaped opening. The shaft is always rough, just as it grew on the tree, and frequently weak also. From New Caledonia to the New Hebrides, the Fiji Islands, and from New Guinea, we get missile spears with long points of hard wood or bone. On the shaft we may often notice appendages which may be of use in hurling it. In some parts of New Guinea, as Venus Point, Hatzfeld Harbour, and up the Empress Augusta river, we find throwing-sticks. The throwing-thong of New Caledonia arises from the same idea.



New Caledonian clubs, and a painted dance club (*a*) from the New Hebrides. (Vienna Museum.)

Clubs are among the most popular weapons in Melanesia; like the spears, they find their greatest development in the eastward islands, particularly in Fiji and the Solomons. Certain parts of New Guinea, as Maclure Gulf, possess no clubs. These weapons serve for striking or for guarding arrows and javelins, and in general they form the accompaniment of every expedition. Hence their double position as insignia of rank and weapons. They are often so heavy and shapeless, and yet wrought with such an expenditure of labour, patience, and ingenuity, that they must be intended for some purposes other than fighting only. The clubs of celebrated warriors in Fiji used to have names of honour or pet names; in their shapes some seem to be connected with the four-edged Tongan type, others with the paddle-shaped weapons of Tonga and Samoa. A peculiar form is the imitation of a flint musket, lock and all; another is a point projecting from a

prickly fruit. In New Caledonia the most frequent form of club is the simplest, namely a bludgeon merely taken from a knotty branch. The first stage towards finishing lies in the making of a sharp edge round the knob, the next in childish striped ornaments; or a favourite plan is to jag the end in a star shape. A peculiar club is one in the shape of a bird's head, which here replaces that used in Mota to open bread-fruit. But in all an easily recognisable difference from those of Fiji and Tonga is formed by the grip which thickens abruptly at the handle end. Together with this goes the splicing of the handle with string, ribbon, palm fibres, even dry fern. In the case of the richest or most distinguished persons the throwing-cords are fitted with reddish brown knots. This ultimately led to the reddish brown shaggy ornament as found also on spears. In recent times it has been imitated by means of imported red wool, even by miserable shreds of cotton, a melancholy symbol of the decay of the old glory of the Kanakas. The clubs in the Solomon Islands depart very little from the paddle form; they have a projecting middle line resembling the rib of a leaf, and a handle with a shoulder. Further decorations, such as ears at the sides of the paddle blade, or a sharper shoulder where this passes into the shaft, are of a modest character. Another type has arisen through the bending of the blade whereby either the middle rib is thrown into strong prominence, or an opportunity is given for more delicate ornamentation by means of zig-zag lines, or a spike-like angle juts out from the vertex of the curve. The handles are decorated with ornaments of every kind, carvings of squatting idols, pretty woven work of coloured bast in tasteful patterns; while in the flat straight clubs the blade is polished smooth and sharpened at both edges, and the handle bound. Clubs from the New Hebrides have a plaited sling, so that they can be carried over the shoulder; while in New Britain we find rings of fibre or plaiting which are said to be mementos of slain enemies. In New Guinea and New Britain we meet with a weapon like a "morning star," half club, half axe; upon a sharpened staff, a yard long, a disk-shaped stone is fitted near the upper end, and above this a bunch of red and yellow feathers. This reminds us of the star-shaped stones with a hole through them found in Peru; besides these, clubs occur without a stone; others have a three-cornered sharp-cut head. There are also round ones of black heavy polished wood, with engraved ornamentation about the head; and flat ones made of an equally heavy browner wood cut into the shape of a spoon handle.

The Melanesian axes are not perforated, and remind us also in their shape of the Polynesian stone blades. They are often beautifully ground. They are often fastened upon or into the helve by regular crossed layers of rush or string, but sometimes, especially in West Melanesia, the helve itself is perforated, and so a new form arises with the blade as a rule narrower and rounder. Besides stone, shell also occurs in a similar shape as a material for the blade in Santa Cruz and New Guinea, in the Torres and Banks Islands. Iron was no doubt occasionally imported before the European epoch; and in western New Guinea intercourse with the Malays has made it common. How quickly it takes hold we may learn from the fact that from New Guinea to Fiji, up to the present day, no article of trade is in such demand. It is interesting also to notice that even the natives who have only been for a few years in frequent contact with Europeans, imitate the iron axe in wood, even to the trade mark, while their stone axes have lost the handle, and have been degraded to the rank of pestles. In a similar

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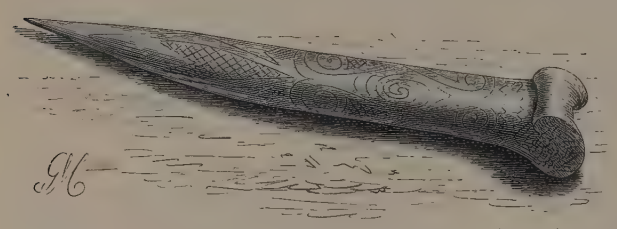
WEAPONS AND UTENSILS FROM MELANESIA AND MICRONESIA.

way must have arisen the musket shape for clubs and the like. In some axes the blade is set at an angle with a view to more convenient working when hewing out the interior of the canoes. Fijian axes are in the Polynesian style, but not so large. In the New Hebrides and the Solomons we have smaller wedge-shaped rounded stone hatchets, sometimes wider, sometimes narrower, tending in one place to the oval, in another to the triangular shape. In Isabel and San Christoval the blades are from $2\frac{1}{2}$ to 8 inches long, of a greenish gray colour, triangular or tongue-shaped, with a ground edge. The tongue and oval shapes appear in an extreme form in New Caledonia. For the broad and quite circular hatchets jade afforded the material. Artistically pretty patterns are either stitched or woven into the binding of the handles. New Ireland has ceremonial axes with beautifully carved helves.

Bows and arrows are frequent but not universal. With some gaps in its

1. Bow from the Solomon Islands (Berlin Museum). Guinea—one-tenth real size (Christy Collection). (Godeffroy Collection, Leipzig).
2. Bow and arrows from North-west New
3. Arrow-heads from the Solomon Islands

distribution, the possession of the bow distinguishes the Melanesians from th neighbours to north, east, and south; yet without entitling us to speak of t bow as a characteristic of the Papuan race. The forms are like those of Easte "Indonesia." They are long bows with strong, slightly bent, often fluted, sta of bamboo or palm-wood; the string of vegetable material, usually rattan, firmly looped to the ornamental end, and fastened in New Guinea with a pad rattan, in the Solomon Islands with resin. In New Ireland and New Caledonia bo and arrows are not in use; but in New Britain, Port Sulphur, the southern islan of the Solomon group, the New Hebrides, the Banks and Loyalty Islands, th are known, and in so parts are common. In New Hebrides especia they are highly develop The arrows of the Solom Islanders are the fin of any. They are ma of a reed, with a head hard wood, either simp sharpened to a po or else artistically car into barbs of wood, bone, or teeth, in imitation of the spear-heads. The shaf decorated with elegant hatched work, put on so as artfully to indicate the knots the reed. The place where head and shaft join is bound with bast, the point f quently covered with a yellow wrapping, it is said, to denote that it is poison It is a curious instance of division of labour that all the beautifully wrou arrows of the Solomons are carried from the little island of Nissan in the extre coast of the group, together with pigs, to Buka, and thence traded off for bo arrows, and earthenware. In Ugi and Biu near San Christoval arrows are u having rings of palm-leaf at the butt-end of the shaft, and no notch to take string. In the Admiralty Islands small arrow-like javelins are hurled with thong. A Melanesian bow of uncertain origin in the Vienna Museum is bou with bast at both ends, to prevent the string from slipping; this being made twisted liana and strengthened in the middle with bark. We are reminded of rattan pads in New Guinea bows.

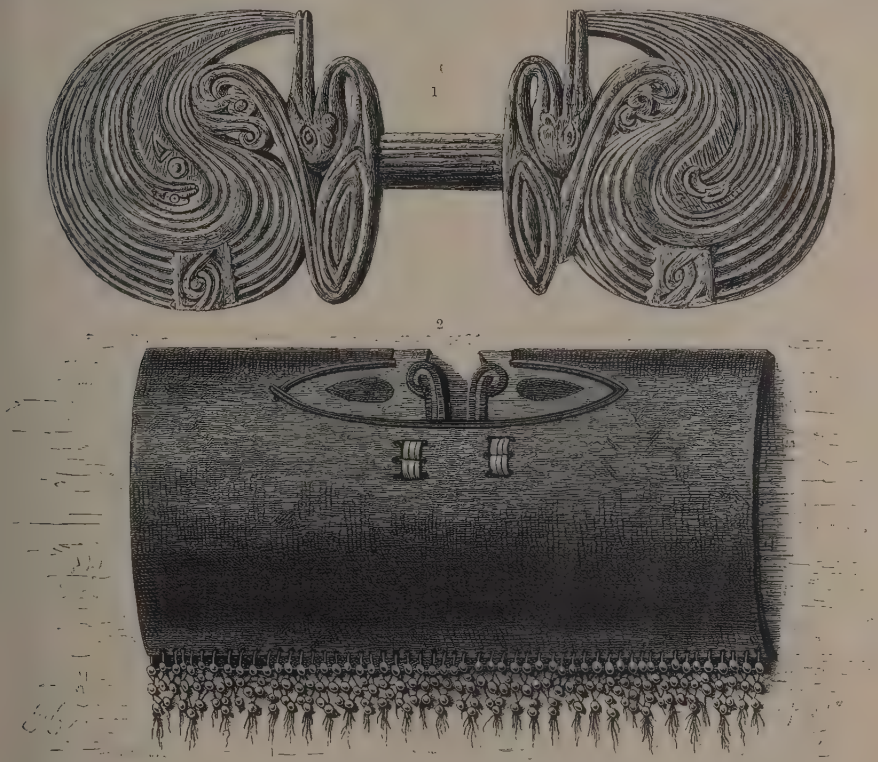


Dagger of cassowary bone, from North-west New Guinea—one-fourth real size. (Christy Collection.)

As a rule the arrow-head is smooth, but barbs are also met with; in fish-arro as many as four. From this to fish-spears is a short step. Arrows with a sh for head are used in Malayta to stun birds. In the Banks Islands ornamen arrows serve as a medium of exchange. Somewhat exceptional is a quiver bark and rattan-plait from New Guinea. Poisoning of arrows is believed occur. In the New Hebrides cadaveric poisons and euphorbia juice are us while in New Guinea the Hattams smear their arrow-heads with a dark bro vegetable poison called *umla;* which, however, must not be confused with use of resin as a protective varnish for wooden arrows. Experiments w poisoned arrows have often failed to produce any result, and in many cases "poisoning" must be regarded only as a magical rite. Deadly effects are a ascribed to arrow-heads of human bone, and orders for these articles are s given freely. One of the appliances of archery in the New Hebrides is a wood hand-guard some 5 inches broad. This is slipped over the wrist like a ring, a

protects the hand from the recoil of the bow-string. The spiral liana bandages a foot long used in Buka, and the plaited "braces" covering half the forearm found on the Fly River, doubtless have the same purpose; while the braces and greaves of plaited bast in the Anchorite Islands are as much ornamental as protective.

The natives of New Britain, the New Hebrides, New Caledonia, and Fiji, use slings for missile purposes. In New Caledonia and Niue the carefully wrought sling-stones, of a pointed oval shape, are carried in a net bag, fastened at the



1. Carved dance-shield from east New Guinea—one-fifth real size. 2. Shield from Teste in New Guinea—one-tenth real size. (Christy Collection.)

ower end by buttons, and hence easily emptied. The sling is a simple cord, loubled in the middle to form a seat for the stone. It is unknown in New reland and the Solomons; while in Tanna the boys use slings where their elders :mploy bows and spears. The Fijians have also short throwing-clubs, with a leeply shouldered head, like the *induku* of the Kaffirs. The killing-clubs of Malayta are stronger weapons of the same kind, having a carved handle, with a ump of pyrites at the lower end contained in a web of bast. To this class elong the instruments like staves, over a yard long, used in New Caledonia, riginally nothing but pointed cudgels with a grip for the hand.

Even before the age of iron, knives and daggers were used in hand-to-hand fighting, either formed of broken-off spear-heads or poniards of bone. Those from the

1. Wooden shield, bound with plaited rattan, with black and white pattern, from Friedrich-Wilhelm's Harbour. 2. Carved shield from Hatzfeld Harbour. 3. Wooden battle-shield from Astrolabe Bay. 4. Wooden battle-shield from T briand. 5. Motu-motu shield fr Freshwater Bay. One-twelfth r size. (Berlin Museum of E nology.)

Admiralty Islands are conspicuous by their breadth at the point where the blade passes into the artistically engraved handle. The so-called daggers made of rayfings are really files. Not uncommonly the handle itself is pointed like a dagger. The poniards of bird-bone (mostly a cassowary's leg-bone), frequent in New Guinea and the neighbourhood, are simple enough; the thick end with the joint serves as grip, the other being split and worked to a point. Ornament is rare, and limited to very simple scratched work, owing to the hardness of the bone. A finish, rare among races in this stage, is given by wrapping spear-heads and knife-blades in sheaths of palm-spathe, as shown in the cut on p. 230. In conclusion we may mention the caltrops, used in Fiji and New Guinea, made of sharp splinters of bamboo stuck in the ground.

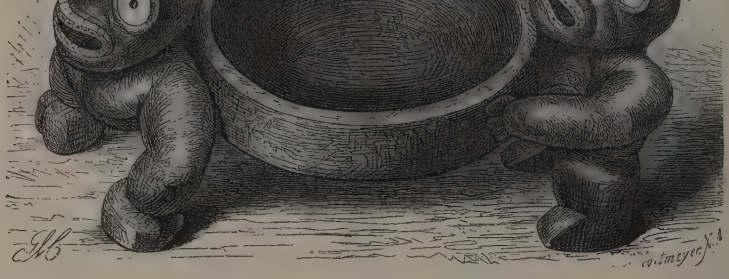
The employment of defensive arms is limited. In Fiji, the New Hebrides, New Ireland, New Hanover, and the Admiralty Isles, shields are wholly absent. Among the Solomon Islanders we first meet with elongated shields of plaited reed or bamboo; the reeds placed longitudinally and woven together with fibre, while decorative patterns are woven in with black fibre, and pieces of mother-of-pearl often applied in regular figures. The grip and guards for the hands at the back are made of strips of palm-leaf. An extraordinary development, reminding us of Central Africa, is found in the shields of eastern New Guinea and the islands to the east, where specimens occur of great size, weighing up to 12 lbs. and beautifully decorated; circular, oval, or rectangular, flat or hollow, made of wood or plaited, together with the narrow Malayan kind from Salawatti. The ornamentation is original, being sometimes symmetrical, sometimes the reverse. The narrow Moluccan shields with shell-trimming have been imported, but have spread no further. Cuirasses are found on the north and south coasts of New Guinea.

No race possesses such a luxuriance of fancy in the case of weapons and similar articles whose purpose is narrowly limited. In the ceremonial axes of New Ireland the stone blade completely disappears beneath the accessories; faces, lizards, birds, remind us of the masks coming from the same region. Social relations, religion, festivals, partially explain this; they presume the existence of numerous insignia of rank, and as may be easily understood, weapons were the first things selected for this purpose. Much feeling for form, much industry must have gone to the making of the decorative axes from the D'Entrecasteaux Islands, shown on p. 182, with their large finely-ground stone blades. Without a comparative survey of allied objects, it would often be impossible, even in the case of those which by reason of their curves or sharper indentations look like flaming swords or horrible instruments of torture, to decide whether these weapons were evolved from clubs, paddles, or swords. But when the passion for ornament assumes such dimensions as we see in the representation on p. 235 of a carved wooden shield from New Guinea, we are reminded of the exuberant fancy of nature in shaping sea-monsters or creeping plants. There is all the flavour of the tropics in them.

§ 7. LABOUR, DWELLINGS, AND FOOD IN OCEANIA

Similarities and coincidences in labour and implements of labour—Hunting and fishing—Agriculture and i implements—Food and stimulants, betel, *kava*, tobacco—Architecture and plan of villages

As good wood-carvers the Micronesians surpass many of their kindred in t East Pacific Islands. They know the trick of patiently adding to their dish coat after coat of resinous lacquer till a durable skin is formed. Their wood ware consists of plates, bowls, and great dishes, all painted a beautiful red, and inla with mother-of-pearl; flat plates and deep bowls are found in the very poore abodes. The people of Fakaafo carved cylindrical boxes out of single pieces wood, with covers or even close-fitting lids, in which they keep their fishin tackle. In Pelew every native is expert in the handling of his little axe; b house and boat-building is carried out by masters in the craft. This multifario

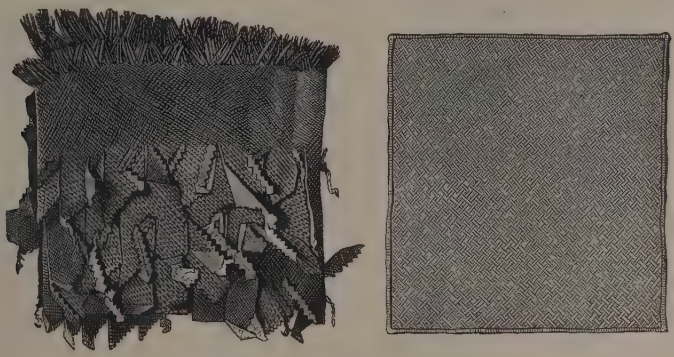


Wooden dish from Hawaii. (British Museum.)

dexterity of the Micronesians is the point where the introduction of Europea goods has caused the greatest falling off.

But the productions of Polynesia also testify to great handiness, and expe craftsmen hold a good position. In Tonga and Samoa carpenters are regarde as artists, and form a guild with sacerdotal rank. The perfection of the metho of labour led to the division of labour. Thus in Hawaii there were builders ar roofers, boat-builders and carvers, whose productions were articles of trad Armourers and net-makers sometimes also formed separate trades. Cook notic the chiefs' *ava*-cups as the most remarkable pieces of carved work in "Owhyhee" they are perfectly round, 8 to 12 inches in diameter, and beautifully polishe and have little human figures in various attitudes as supporters. Quite a peculi style of execution appears in a Hermes-shaped idol from Hawaii, now in th Berlin Museum, made almost in life-size from the wood of the bread-fruit tre with pegs of hard wood let in forming dots. It is quite a mistake to assert tha the Polynesians have no pottery. The Easter Islanders are skilful at it. O Namoka, Cook found earthenware pots, which seemed to have been long in us and the Tonga group produces porous vessels. In Micronesia, too, pottery ha been known from early times.

Of the mode in which the bark-cloth, known as *tapa* or *gnatu*, is prepared Mariner gives the following account: A circular cut is made with a shell in the bark above the root of the tree; the tree is broken off, and in a few days, when the stem is half-dry, the bark and bast are separated from it. The bast is then cleaned and macerated in water, after which it is beaten with the ribbed club on a wooden block. This beating enlivens a village in Tonga as threshing does in Europe. In half an hour the piece will have changed in shape from a strip almost to a square. The edges are snipped with shells, and a large number of the pieces are drawn separately over a semi-cylindrical wooden stamp, on which the pattern, worked in coco-fibre, is stretched and smeared with a fluid at once adhesive and colouring. On each a second and third layer is placed; and the piece, three layers thick, is coloured more strongly in the parts which are thrown into relief by the inequalities of the bed. Others are annexed to it both at the side and

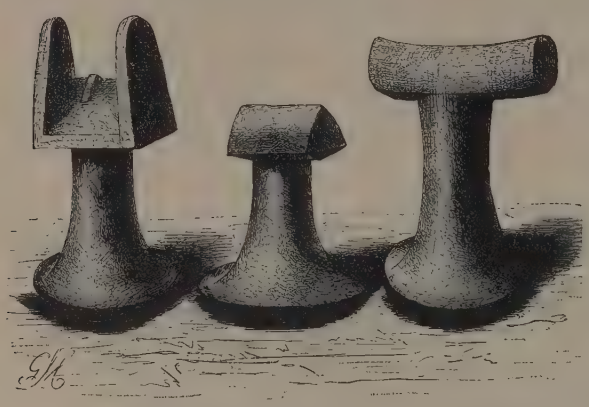


Mats from Tongatabu. (Vienna Ethnographical Museum.)

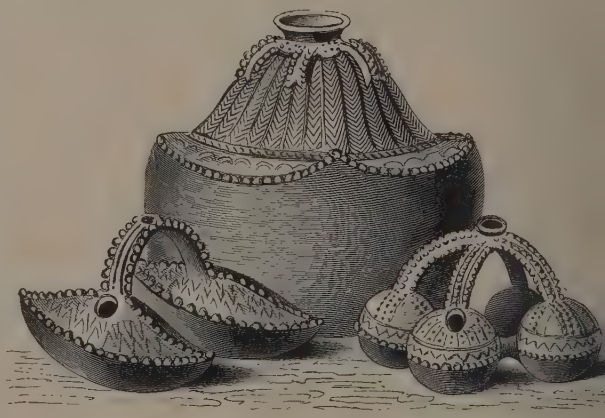
the end, until pieces a yard wide, and 20 to 25 yards long, are produced. For printing their *kapa* (as they call it) the Hawaiians used sticks broadened at the end, and carved with figures in relief, and drew lines on the stuff with a wooden comb. Some of the most remarkable patterns of Polynesian *tapa* from that portion of Cook's collection which is now at Vienna, are represented on our coloured plate. The tints are black, white, and reddish brown; the patterns, with the exception of a dotted one which seldom occurs, are rectilinear. European influence has unluckily not improved them. Mats from the Gilberts and Marshalls show a special pattern for each island,[1] displaying a relatively good standard of taste. The women of Micronesia, in Ruk, Mortlock, and Nukuor, weave a fabric from the fibres of a *Musa* and a *Hibiscus*. The looms, or rather frames, are like those of the Malays. The Gilbert and Marshall Islanders are clever at weaving mats; the inhabitants of Ponapé sew their mats; the women of Ponapé understand basket-weaving, while the ropes which their husbands make from coco-fibre are famous. From the Gilbert Islands come charming covered baskets and fans of different sorts. The long tough fibres of the *Phormium tenax*, which grows from 6 to 10 feet high, stimulated the Maoris to the weaving of mats, affording a substitute for *tapa* of many and various descriptions. Bast

[1] [So to this day many Alpine valleys have their own pattern for home-spun and home-woven cloth, recognised sometimes even in quite remote districts.]

mats with borders of feathers woven in are made in Samoa. Cook broug some of the prettiest plaited work from the Tonga Islands: pouches, wood vessels covered with plaited work and the like; large mats are designed wi stripes of dark-coloured bast and adorned with trimmings woven on. A chara teristic Tongan object the fly whisk, which is the same time one of t king's insignia. The fa of plaited bast also sh pretty shapes; they belo to the toilet of Polynesia of all ages. A gre variety of straw plaiti is produced at present Hawaii. Interesting al are the netting needles, o of which exists in the Co collection at Vienna, wi a net of human hair st wound round it. A stro wooden needle, some inches long, with an eye, was used for the same purpose. For ornamen mother-of-pearl was the favourite material to work; it makes a particularly viv impression when it is employed in glittering natural beads, or lies in broad plat on the breast. Tortoise-shell is split into discs of extraordinary thinness, while valuable chains and girdles are composed of the coloured opercula of certain shells. The laborious putting together of them from numerous small pieces is a particularly favourite task. Feather-weaving reaches its highest pitch in Hawaii. One might say that in the case of the hideous feathered idols of the Sandwich Islands the work is much too fine in comparison with their ugliness. The red feathered head shown in t coloured plate of Polynesian ornaments, with its wide skate's mouth full of tee and goggle eyes, is made of plaited reeds and string, into which thousands little red and yellow feathers are so cleverly worked in tufts that they quite co ceal the substratum. The red feathers on the Greek-shaped helmets are fro *Depranis coccinea*, the yellow from *Moho fasciculatus*.



Stone pestles from Hawaii—one-fourth real size. (Cook Collection, Vienna Museum.)



Earthenware vessels from the Fiji Islands. (Godeffroy Collection, Leipzig.)

Among the household utensils of the Hawaiians are pestles called *penu*, 5 to 8 inches high, made of basalt, smooth and beautifully worked, with a flat rubbing-surface and handles of various shapes. With these bread-fruit, *taro*, and bananas are ground, on a block having four feet and the upper side slightly hollowed. Primitive oil lamps are formed of conical bowls hollowed out in lava. Lastly, we must mention the preparation of the turmeric powder, to which is ascribed an importance amounting to sanctity as an embellishment for body, clothing, and utensils. In Nukuor the roots are ground by four to six women in special public buildings, they are then allowed to stand in water; on the following morning three young coco-nuts and three old *soma* nuts are offered by a priestess with prayer, after which the dye which has settled down in the water is

Carved spatulas for betel-lime from Dorey in New Guinea—two-sevenths real size. (Christy Collection.)

collected, baked into cakes in coco-nut moulds, wrapped in banana leaves, and hung up in the huts till required for use.

The industrial activity of the Melanesians is in some points behind, in many others in advance of that of the Polynesians. Weapons reach their highest development in the Solomon Islands; the artistically beautiful spears of Fauro have been spoken of with full justice. New Caledonia, parts of New Guinea, and the Admiralty Islands hold in many respects a lower position; while many natives of the southern and central Pacific have no knowledge of pottery. From New Guinea to the Fiji Islands vessels are freely made of clay mixed with sand. This art is absent in New Ireland and New Britain, but reaches its highest point in Fiji. Finsch mentions villages on Hall Sound in New Guinea, where one stock understands pottery and another does not. On the north coast Bilibili does a thriving trade as the centre of this industry in Astrolabe Bay by exporting its manufactures. In the New Hebrides the potter's art must have died out; in Vate not one complete pot is now to be found, but only potsherds. This

Utensils from Hawaii (Arning Collection, Berlin Museum): 1. Calabash-carrier of coco-nut fibre. 2, 3. C
bashes with pattern burnt in, stoppered with *conus* shells. 4. Beaters of *kanila* wood. 5. Stamping s
for *tapa*. 6. Oil lamps of lava. 7. Decoration for chiefs, a sling of human hair with carved cacha
tooth. 8. Necklace of similar teeth from Fiji. 9-12. Straw plaiting, probably a modern importa
1-8, one-fifth to one-sixth; 9-12, one-half real size.

retrogression has been set down to the immigrating Polynesians, who have introduced the custom of cooking with hot stones. The highest points to which the earthenware industry has developed are found in New Guinea and the Fiji Islands, which are precisely the extreme points of its distribution. The Melanesians do not know the potter's wheel, but they burn their vessels cleverly in the open with dry grass and reeds. The Fijian tools are a ring-shaped cushion (in New Guinea the upper part of an old pot), a flat round stone, and four wooden mallets. With this they make vessels which are quite as symmetrically formed as on the wheel. A shining glaze is given by rubbing them with resin while still hot. In New Guinea pots are painted black, white, and red, with figures of birds and fish; the shapes have extraordinary variety. The cooking vessels are simple but elegant urns, sometimes of considerable size. Ornamented covers are not uncommon, handles at the side are never found. Among the smaller drinking vessels are found some made of two or three fastened together, with separate spouts, and having also a common spout in the hollow handle; also oval and spindle-shaped flasks with one opening, and boat-shaped ones with two. The decoration consists of impressed dotted or zig-zag lines and ribs, which Finsch, from his observations in New Guinea, states to be trade marks. Pots the size of casks are used there to keep sago. The wonderful wealth of forms is based not so much on recollection of the very similar South American shapes as on immediate imitation of Nature. Here, as among almost all races, the task of making pots is left to the women, and it is only the wives of fishermen and sailors who appear to devote themselves to it. May we see in this a case of migratory industrial tribes resembling the smiths of Africa?

Bark-cloth is prepared in all the Melanesian groups. Besides the paper mulberry, which is cultivated, the following trees supply the bast: *Ficus prolixa*, *F. tinctoria*, and *Artocarpus incisus*. The loom is unknown; the woven stuffs from New Guinea found in our collections seem to be a Malay importation. In New Guinea they merely beat soft the bast stripped off the india-rubber tree; but Fiji produces pieces 150 yards long, of stuff coloured in patterns, by means of the blocks shown on p. 183. It is hard to say how far to the westward the Polynesian and Fijian method of preparing *tapa* extends, since it is an article of trade. In New Britain the *tapa* is thicker, and obviously more coarsely manufactured; nor is it printed, but painted, so that, as in New Guinea, the patterns are larger and more continuous throughout the stuff, from being drawn and not impressed. The use of a rule, too, permits the designing of wonderfully regular squares.

The art of plaiting is diligently practised. For the coarser mats coco-nut fibre is employed; for the finer, pandanus leaves and rushes. An intelligent Fijian can always tell you from which island a mat came. The coarser kinds are used as floorcloths and hangings to the huts; the finer as sails, or sleeping-mats, or for children. Floor-mats are 5 to 8 yards in length, sail-mats 100 and more. Sleeping-mats are of two kinds—a thicker to lie on, and a thinner for covering; one of the most valued sorts has a pleat running through the middle of each strip of plaiting. Borders are worked on with designs in darker bands; white feathers and scraps of European stuffs are woven in. One of the prettiest productions of the art is the women's *liku*, a girdle woven from strips of the bast of the *wau*-tree (a kind of hibiscus), with the fibres of a root that grows wild, and

blades of grass. Soft mats are made by plaiting the stalks of a fibrous plant i one, and removing the woody portions by bending and beating. Bags a baskets are admirably woven; fans, too, are made either of palm lea strengthened at the edge and vandyked, or woven from bast. But superior to these are the string and the cables—the best from coco-fibre, the inferior ki from the bast of the *wau*-tree. In the Fiji Islands these are tastefully made into balls, ovals, spindles, etc. Comparison with New Caledonia shows how h East Melanesia stands in this art. One has only to look at a New Caledonia beside one from Fiji. But in New Guinea, again, very elegant woven articles all kinds are produced.

Wood-carving again, of which we have seen specimens in the weapons, sta

Wickerwork (basket, pouches, and fly-whisk), from Tongatabu. (Cook Collection, Vienna Ethnographic Museum.)

highest in East Melanesia, though the west can also (as seen in the cut on p. 24 show remarkable work. Individual districts are poor in this respect: in t Banks Islands, for instance, hardly any carved human figures are to be seen. the larger groups have their own subjects. The most wonderful fancy is sho in the appendages to houses and boats. In these simple artists there is a stro tendency to pass from imitation of Nature to conventionalised forms, so that t imitation is never very successful, especially where, as in Fiji and the N Hebrides, the human form is so rarely copied. One may see this in t representations of the human face, in which the nose appears as a line, falli downwards and forwards from the projecting forehead, with strongly distend

nostrils, and ending in the mouth, a cross line sharply cut back. In some New Guinea masks this evokes a reminiscence of Ganesa and his proboscis. In Fiji this fancy is fused with the far better proportioned geometrical designs of Tonga. In San Christoval figures are better drawn than anywhere else, and in Isabel we find really artistic engraved work. We may notice also one characteristic production of Melanesian art: the ever-recurring grotesque heads of the New Caledonians. The carved head with large nose and a kind of bishop's mitre on the top, as shown on p. 252, is a type which we find in a larger form by itself, as an idol. This religious sculpture shows a close affinity with idols from other parts of the South Seas, in connection with which we may recall the resemblance of the spear-heads to the knobstick of the Hervey Islanders as shown in the plate of "Polynesian Clubs."

To the same branch of art we may refer the carved wooden masks. These

Polynesian fan and fly-whisks, insignia of chiefs, probably from Tongatabu. (Cook Collection.)

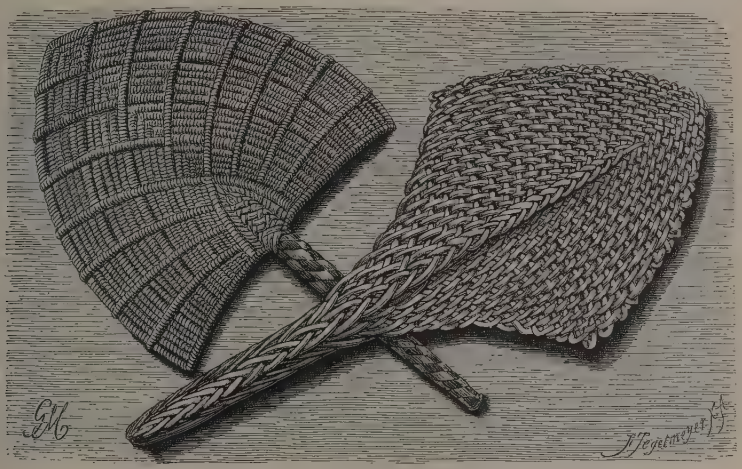
are often trimmed round the lips with red beans, and fitted with wigs of real hair; and are carried at dances, dressed in feather clothing. All these carvings are executed with firm, strong cuts in palm wood. Lines in relief are coloured black, the general level red, and depressed parts are white. From New Ireland come examples of masks made by sawing off the face of a skull, just as in Peru; and with these are connected the ruddle-painted skulls of New Britain. The flexible tortoiseshell was formerly the favourite material in south-eastern New Guinea and in the Torres Islands for masks with wild arabesques and appendages like trunks and combs. Still earlier, indeed, it was much more worked, being used even for hats; now they have got to use tin masks in New Guinea, where formerly, in Kaiser Wilhelm's Land particularly, a vigorous style in masks used to prevail, corresponding with that of the carved woodwork generally.

In trade the activity of the Melanesians is by no means insignificant, stimu-

lated and instructed as it no doubt is by the trading of the Malays in New Guin and by that of the Tongans in Fiji. It was owing to this foreign trade that t natives of Hood Bay came unarmed to meet MacFarlane's schooner, or that t Papuas of Ansus have become honest brokers between the Malays and t mountain tribes. This, too, it may be which has caused the Fijians to establi and level market-places at suitable points of their coasts; while the Fijian tradi people of Levuka, Mbotoni, and Malaki have formed themselves upon the examp of the Tongans. But even in Central Melanesia there is a lively traffic. Individu islands of the New Hebrides manufacture various weapons; thus the point weapons of Tanna come from Immer. In the Solomons, Malayta builds canoe Bougainville mints shell-money; Guadalcanar makes rings and wooden dish A valuable article of export from New Ireland are cuscus-teeth, perforated f fillets and necklaces. All these peoples were acquainted with trade and bart when first visited by Europeans; among some of them iron was found, whi could have been introduced in no other manner. They rushed only too readi into commerce with white men. When the *Gazelle* visited Blanche Bay in 187 canoes full of natives eager for trade swarmed around them; but in 1889 Rea Admiral Strauch found the bay almost empty. The people had nothing left exchange. Money transactions play an important part, for rank and dignity a graded upon money. In New Britain its purpose is served by disks of shell stru on fibre; in the Banks Islands by the points of shells similarly strung; in t northern New Hebrides by long narrow mats which are more valuable proportion as they are older and more smoke-blackened. Sperm-whales' teet which are valued as ornaments, represent large capitals in Fiji; just as do, in t Solomons, necklaces of dolphins' teeth, and armlets formed from rings of she Santa Cruz treasures red parrots' feathers; and Melanesia, in the Banks Islan the feathers round hens' eyes. Similarly, in former times, the red hair below t ear of the flying-fox was used as money in the Loyalty Islands. Accumulat capital is represented also by the masses of *tapa*, of which the Fijian chiefs a so proud that on festive occasions they will wind 200 yards and more of it rou their persons. What is even more, Codrington tells us that the Banks Islande have organised a regular system of credit.

In Micronesia the position of currency is taken by stones, bits of glass porcelain, fragments of enamel, and beads. In the Pelew Islands, whence th seems to radiate, seven sorts are distinguished. First, *brack* or *barak*, of whic in Semper's time, the whole group did not contain more than three or four piec The most valuable was made of terra-cotta, in the shape of a bent prism wi sides ground somewhat hollow, hard, fine-grained, and with almost a glassy lust Kubary gives a picture of a *brack* worth forty-five shillings—a polished fourtee sided polyhedron. Second, *pangungau* or *bungau*, a red stone, polished like *bra* perhaps jasper. It was preserved in the treasure-chest of the King of Korr or buried on account of its value; in Aibukit the wives of great men wear it on th necks. Third, *kalbukub* or *kalebukub*, agate in a particular shape, or in sor specimens, hard enamel. Kubary says: "Only very few chiefs possess a sing *kalebukub*, and I was the first white man that ever had one." While these thr kinds of money go only among the chiefs, the four others, *kaldoir*, *kluk*, *adelobb olelongl*, circulate among the common people. For a bit of the last-name consisting of fragments of white or green glass, you can buy at most a hand

of bananas, or a bundle of native cigarettes. In the *kluk* class are found polished enamel beads, the production of a much higher ability than any with which we can now credit the people. The different classes are not, however, very sharply graded; large *kluks* outweigh inferior *kalebukubs*. With the exception of the most valuable, which are never brought out, all serve equally for ornament, and so are perforated. Marks of rank are also a measure of property. Thus in Pelew wealthy persons wear as an armlet the *klilt*, or atlas vertebra of the rare Halicore dugong. The purchase of the *klilt* is a political requirement, with which every new chief is expected to comply. Since only the king can confer this, Semper calls it "the Order of the Bone." The same writer heard a pretty story at Aibukit in Pelew: Once upon a time a boat floated up, the occupants



Wicker fans from the Gilbert or Marshall Islands (British Museum).

of which were the seven kinds of money. They had set out from their own island, Ngarutt, to seek new countries. They had floated about in the ocean for a long time without finding what they wanted, and at last they came ashore here on Pelew. Off the harbour, Brack, who as the most important was lying stretched out on the platform of the boat, told the next in rank, Pangungau, to go ashore and have a look at the island. Pangungau, as lazy as his sovereign, gave the order to Kalbukub; he passed it on to Kaldoir; he to Kluk, and so on till the much-enduring Olelongl, who had no one to send, had to go. But as he did not return, after a while Brack renewed his order. This time Adelobber went off grumbling, and he, too, did not return. Then Kluk was sent to fetch them both, but he also stayed on the island; and so it went on till Brack was deserted both by his common people and by his nobles. "So he went to fetch them himself, but he too liked the look of our town," said the narrator; "and so all seven stayed and took up their abode. Brack does nothing but eat, drink, and sleep, and the higher in rank always sends his inferior on errands; and thus it is," concluded the narrator with a sly laugh, "that, just as with us men, the big money sits quiet at home, and the smaller has to be smart and run about, and work for himself and the swells too."

In the Carolines we meet with a similar development of currency. Here t most frequent unit, called *fe*, consists of large pieces, like millstones, of a pa yellow granular limestone, from 1 foot to 2 yards in diameter, and weighing to several tons. Their value depends upon their size, workmanship, and so c and from a few dollars to 1000 or more. Every year many people go in gang on board European vessels, to Pelew, where they find the raw material. Sin the working requires many hands, and the transport is expensive, these stone coi usually remain the property of the whole commune; very few find their way in private hands. This kind of money being somewhat unwieldy, other forms coin come into use for commercial purposes: in the first place pearl-shells, or *s* strung on a cord; then rolls of matting, *ambul*, of coarse work and various value, t largest from £7 to £11. A further form of money, *gau* (clearly the same as t

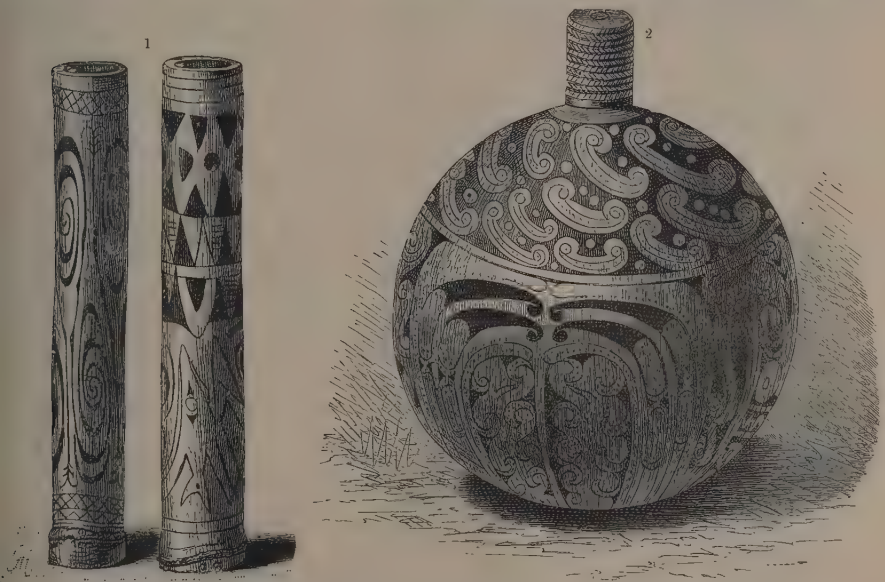
Wooden bowl for food, from the Admiralty Islands—one-eighth real size. (Christy Collection.)

bungau of Pelew), is made from various polished stones and pieces of shells twiste off, which can be strung into necklaces till wanted. These are found only amor the chiefs. Plaques of nutshells and seashells strung on long cords of coco-n fibre, black and white alternately—an arrangement of which, either in pieces the same size or tapering towards the ends, the art of Oceania is as fond as we the ancient Americans—form money and neck ornaments for the Gilbert Islander polished beads of coco-nut shell, bracelets of tortoise-shell, *spondylus* armlets, a currency in Mortlock. How necessary a currency is may be imagined when w know that the Mortlock Islanders, though they weave themselves, impo particular kinds of woven goods from the Ruk Islands.

The importance of these new coinages is not only economical—their age ar their rarity gives an almost sacred character to some, while in the case of othe the difficulty of obtaining them, and the power which they impart, invest the with political influence. Offences against chiefs can often only be expiate by the sacrifice of a piece of money which represents the whole wealth of family; and then the family, losing with it the credit based upon it, drops sever

steps in the social ladder. Thus money is, to put it briefly, next to religious tradition, the basis of political influence and the standard of social position. The coinage also plays an important part in the inter-tribal festivals. Every island of the Pelew group gives from time to time a *ruk*, at which the representatives of a certain number of allied islands bring to the government a fixed contribution in native money. The visiting chiefs pay their host according to their rank. Besides this *mulbekel*, there are other *ruks*, in which only the small places of a district join with a view of showing friendship and good fellowship.

In general the economic life of the Melanesians gives the impression of a moderate activity under favourable natural conditions. Melanesians from the eastern parts, when serving on European plantations or on board ship, show an



1. Bamboo drinking horns from New Guinea—one-third real size. 2. Carved gourd, used for betel-box, from the Trobriand Islands—one-third real size. (Christy Collection.)

amount of efficiency exceeding that of the Polynesians. In New Caledonia the conditions are less gratifying, the indolence and poverty often reminding us of Australians. Both sexes take part in labour. Of the mode of life in New Guinea, D'Albertis has drawn a picture which would be well fitted by the motto *festina lente*. The natives as a rule get up early, but sleep for several hours in the course of the day. When their toilet is completed the men occupy themselves during the cool morning hours in making twine for their nets. The women clean the huts, fetch water, and cook the first meal, which is eaten in common: the men trim the meat cleverly with their bamboo knives; then most of them leave the village and betake themselves to the field—the men armed with their spears, the women with pouch-shaped nets and carved clubs to knock down dead wood from the trees. They have four meals a day, consisting of bananas, yams, *taro*, sago, and bread-fruit, kangaroo, and even meat and fishes. But they also eat snakes, iguanas, frogs, the grubs of various insects, fresh-water tortoises, and lastly, with

Carved bamboo box from Western New Guinea—three-fourths real size. (Christy Collection.)

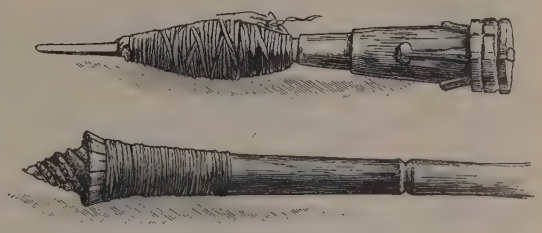
great gusto, a fresh-water mollusc called *ebe*, the she
of which they use for the most various purposes, a
therefore always carry about with them.

Both Polynesians and Melanesians display
artistic tendency in their simplest articles of daily u
In reference to New Guinea, Hugo Zöller says: "Y
will be guilty of no exaggeration if you speak of
real art industry among the Papuas"; both peop
have attained a similar point, but the ornament of t
Melanesians is richer and fuller of fancy. It
attractive to trace out how and in what their produ
tions show the typical differences that have th
roots in the spirit of the people, or rather in the spi
of the race. In Papuan ornament the predomina
element is the curved line, and that either in parall
or freely interlacing. It runs especially into spira
but also into waves, crescents, ellipses; individu
groups of ornament are separated by zig-zags a
straight lines. The concentric curve is always recu
ring in the fantastic beaks of their ships, or in t
carved shields, paddles, and mallets; it has a decid
advantage over any attempts at copying Nature.
this New Zealand resembles New Guinea most; n
and again efforts towards geometrical arrangement a
seen in paddles, the blades of which are divided
two straight lines into four equal portions, various
coloured. It appears still more in the wooden moul
for the decoration of earthenware vessels. But it
in the east of the island world that it may claim t
highest development, especially in the Tonga a
Samoa groups, which herein also show affinity.

The tools with which artistic work was done we
before the introduction of iron, exceedingly simp
The stone axe was the only implement for shapi
posts and planks, or for felling trees, and togeth
with sharp shells it served for the execution of t
larger ornament, figures, wooden dishes, etc. Carv
and engraved work was done with shells and ra
teeth fixed in hard wood; shells, again, and t
spines of sea-urchins or rays, served for boring, wh
smoothing was done with files from the skin of a r
and pieces of coral or pumice-stone. The shell-a
was as a rule more frequent in the west, the sto
axe in the east; but iron has created an equ
revolution everywhere. Skilled workmen as th
were, the islanders recognised at once the advantage
iron tools; but at first they preferred sheet iron in t
form of plain hoop iron to all other, since it could

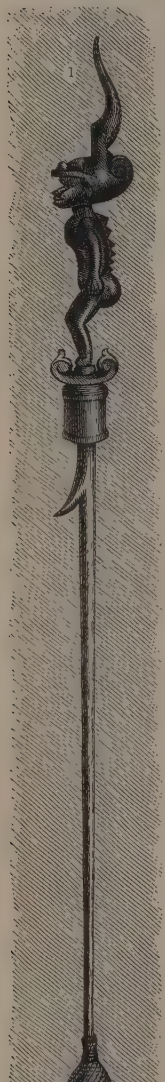
set and fixed just like their old stone axes. It was only in the environs of Geelvink Bay, which were visited by the Malays from Ternate, and by Dutchmen, that the smith's art found a footing in pre-European times; otherwise throughout the length and breadth of the district, as far as Hawaii and Rapanui, iron and the other metals had either never been known or had disappeared; Schouten and Tasman never mention them.

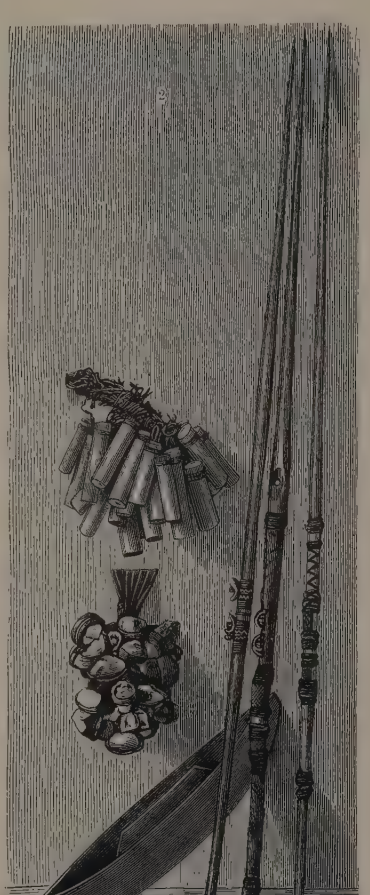
Owing to the larger number of land animals in Melanesia, increasing as it does westward, hunting still plays an important part. In New Guinea many villages subsist mainly upon it, and in districts where certain birds of paradise are found, the right of hunting them is reserved for the chiefs. Meanwhile, in the Polynesians we have a branch of mankind to whom not only all the influences of pastoral life, but also the bracing effects of the chase, have remained unknown. In Hilo, indeed, ducks are captured by means of floating sticks, fitted with baits, and weighted with stones, and small birds are caught in Tahiti; otherwise there is no hunting of any importance. Who can say whether the total impossibility of finding game to provide an outlet for the desire to slay and torture, for ambition and active impulses, has been as responsible for the incessant wars and the cruelty of man towards man as the lack of larger animals' flesh has been an incentive to cannibalism? The decay of projectile weapons must in any case be connected with this. Fishing, on the other hand, is all over the region pursued with energy and diligence; it takes a distinct place in the weekly division of labour. In New Guinea the custom is to fish by detachments on fixed days, and to distribute the catch equally among all members of the tribe. The appearance of a shark puts whole villages into commotion; in time of peace distinguished persons take the command of fishing expeditions just as in time of war they lead troops. The most perfect implements that the Polynesians generally possess are employed in this work. The New Zealanders used to make nets 500 yards long, requiring hundreds of hands to handle them. Hooks of every size are manufactured from birds' bones, tortoiseshell, sea-shells, and hard wood, and fitted with artificial baits made of feathers or bright pieces of shell. Those used in the capture of sharks, a popular article of diet, are as much as 20 inches long. It is only in New Caledonia and some parts of Western Melanesia that the fishing is limited to what can be done with arrows, spears, and nets. In general the fish-hooks of the Melanesian isles are excellent; even white men prefer them to the European steel hooks. Boat-builders, as we have mentioned, were sacred; but the manufacturers of ropes, fishing-lines, and fish-hooks were reckoned at least as important persons. Property in these articles was so abundant that in the early times they were frequently a medium of exchange against European goods. The strongest hooks were composed of three pieces: the body consisting of a semicircular finger-shaped piece of the bone of the cachalot or sperm-whale, the flat under side of which was



Chisel and shell auger, from New Britain. (Berlin Museum.)

inlaid with mother-of-pearl. On its upper side the tortoiseshell hook was faste
with string—the point in the larger specimens being pierced for a string to h
the bait. When these tortoiseshell hooks became blunt
broken they were able to do further service in necklaces.
may mention here the simple but ingenious Tahitian arran
ment for carrying fish—a strong cord with a boar's tooth at e
end. For the shark-fishing, large lumps of bait are used;
the flying fish, an obtuse-angled, sharp-pointed piece of bo





1. Fishing float from the Solomon Islands—one-eighth real size (Christy Collection). 2. Floats, sinkers, baler, and war-spears, from New Caledonia (Vienna Museum.)

In New Britain they emp
also standing fish-traps m
of plaited work, and hand-n
which are held from a mov
boat with the hilt-like
dropped into the water.
the same purpose the Fiji
make a kind of floating bo
net from the long stems
climbing plants, plaited throu
with coco-palm leaves.
Trobriand a kind of rattle
coco-nut shells half cut throu
serves to entice the shar
Vegetable poisons, especia
one from a climbing *glycine*,
used for stupefying the fis
sleepy fishes, such as sharks,
said to be taken in Fiji w
nooses. A great number
ceremonies and festivities
connected with the turtle-fishe
This is carried on by means
weighted nets, which are thro
into deep water close outs
the reef, in such a way as
form a semicircular fence a
block the way of the turt
returning from the land.
animals are driven into th
nets by shouts, but the m
work is to get them on boa
For this purpose people
required of conspicuous d
terity and strength to dive
the critical moment and dr
the animal to the surface; wh
it is fairly on its back in
boat, loud blasts of the shell trumpet announce the joyful intelligence. D'Albe
saw skulls of turtles hung up in the temple of Tawan as offerings. In stor

weather the Hawaiians put out in their little fishing boats to catch dolphins, and many a fisherman going too far in pursuit of the school -the position of which is indicated by the birds in the air—has been cast away and lost.

In the matter of breeding animals, the first mention must be made of pigs. Wherever these occur they take a prominent position. They are pampered: in Tahiti and New Britain the little ones are suckled by women, and fed by old women; or, after the fashion of capons, literally stuffed with bread-fruit dough. They are slaughtered at high festivals, and reserved exclusively for the upper classes. Next to the pig, the dog is the only domestic animal of any size. The

A New Zealand trawl-net. (Munich Ethnographical Museum.)

breed is a small one resembling the breed of the Negroes, with no bark. In New Guinea, New Zealand, Samoa, and the Society Islands they were bred for meat, being quite useless for hunting. The common fowl is the most widely distributed of all: in Tonga they ran about wild in flocks; while in Easter Island they were the only domestic animal. None of the native birds have been regularly domesticated, though in Easter Island the sea-swallows, *sterna*, were found so far tamed as to sit on men's shoulders. In Tongatabu the islanders carried pigeons or parrots on sticks, and on the south coast of New Guinea cockatoos were kept in almost every village. But these have naturally no economic importance.

Agriculture is almost everywhere indigenous; even on the most barren coral island at least a few coco-palms are cultivated. It is most highly developed on islands like Tonga, where soil and climate are not too favourable, but at the same time not niggardly, so that labour is repaid but not allowed to flag. The

Society Islands and Samoa, more prodigally endowed by Nature, stand some what lower, and the inhabitants are more indolent. Lowest of all are poo islands like Easter Island or the smaller Paumotus, with little area and a scant rocky soil. Yet eve there plantains, suga cane, sweet potatoe yams, *taro*, and sola num, were found i cultivation; unpro ductiveness is th exception, the mor favoured regions th rule. Here we fin

Shark-trap with wooden float, from Fiji. (Berlin Museum.)

fenced fields, terraces with earth artificially banked up on steep slopes, an arrangements for irrigation, especially in the cultivation of *taro*, trees for givin shade, and garden flowers, even beds laid out; all which is a sign that th cultivation of the soil has advanced far. Even on Easter Island, G. Forste

Smoked fish from Massilia in East New Guinea—one-sixth real size. (Berlin Museum).

found an irrigation trench a foot deep around every plantain, while in Tonga h walked in an avenue of four rows of coco-palms 2000 paces in lengt diligently weeded and manured. Cultivation is correspondingly dense; on of the special advantages of Samoa to which Pritchard draws attention is tha you come every mile or two upon a grove of coco-palms or bread-fruit; an the first visitors to Tongatabu depicted it as one great garden. In thi way their descriptions excited among their contemporaries the liveliest longin for these fortunate islands. In Micronesia, where fishing prevails, agriculture fo the production of the chief article of food, *taro*, is carried on only in the large islands, such as the Pelews. The men cultivate betel, tobacco, and turmeri while the women of all classes, from the lowest to the highest, even king wives, make it a point of honour to keep their *taro*-patches in the fines condition. The task of the men is only to attend to the artificial irrigation o the plantations, which are in low marshy places, and to set out the young plants the women have to keep the ground weeded, and take the plants up as required Besides *taro*, the New Zealanders cultivate, among crops originally introduce from the north, the sweet potato—this with religious ceremonies—and the bottle

gourd ; and of native plants a fern with edible rhizomes, and the New Zealand flax (*phormium tenax*).

In western Melanesia agriculture is on the whole less advanced. Great part of New Guinea is uncultivated. Yet even here in individual cases it stands high.

Cuttle-fish baits from the Society Islands, two-fifths real size. (Christy Collection, Berlin Museum.)

In the south-east among the Kerepunus, and on Astrolabe Bay in the north, the fields are kept like gardens ; the soil being turned by men in a long row armed with pointed sticks, and then levelled by the women and planted with bananas, sugar-cane, yams, etc., in long strips. Clearing and fencing is done by all in

Polynesian pots and implements (the two calabashes for betel-lime, from the Admiralty Islands) ; also a shell horn—one-fifth real size. (Christy Collection.)

common, in exemplary style. If the arable lands are far off, little huts are put up for temporary occupation. Among the western islands, New Britain and the New Hebrides deserve the highest praise. There, as well as in the Solomons, the extensive plantations lie always in the neighbourhood of the habitations, and frequently are arranged, for the sake of irrigation, on terraces one above another.

On the steep slopes of Meralava, in Aurora, and in other islands, field rises abo field, and every patch gets the full benefit of the irrigation. As in New Guine so in New Caledonia, the nutritious bread-fruit of the east is unknown, whi implies a serious deficiency in the food-supply of the people. In little Mo (Banks Islands), on the other hand, Codrington found sixty names for varieti of bread-fruit, and eighty for yams. But the agriculture of the Fiji Islands tak a higher rank than even that of Polynesia. Here more than anywhere the *ta* or *dalo*, unquestionably the most nutritious of all Melanesian food-plants, is t staff of life. One kind is grown on dry ground, but the normal sort is t Polynesian; for which the soil is worked into a mortar-like consistency, a

Covered vessel in shape of a bird, inlaid with shell, from the Pelew Islands. (British Museum.)

deeply trenched, before receiving the young plants. After the yam, whic stands second, the next root-crop to be mentioned is the *anai* or *masave*, t sweet root of the *ti*-tree (*Dracæna terminalis* or *cordyline ti*). In a few distric only, as Leper Island, is the banana the chief fruit; though the Fijians ha thirty varieties of it. Sugar-cane, and the *yakona* plant, from the chewed roo of which the intoxicating drink *kava* is prepared, are planted in great quantit We find, too, whole nurseries of the paper-mulberry, *masi* or *malo*, from the ba of which the material called *tapa* is made. In the New Hebrides and Banl Islands no single village is without its flowers and aromatic herbs. In all t archipelagos of the equatorial Pacific, the coco-palm is one of the most importa plants. Even on uninhabited islands it is sedulously tended; and it forms, wit the fruit of the *pandanus*, the chief food of the low islands, as the Paumotu which are poor in vegetables.

On how insecure a basis, however, the life of these islanders rests is shown y the only too frequent times of dearth. Among articles of diet the chief place ; taken by vegetable products and the spoils of fishing, and great groups of ıese races are wholly vegetarian. Dietary laws forbid the eating of beasts or lants which are *atuas* of the tribe. Where pigs and dogs exist, these delicacies re reserved for the upper classes or for festive occasions. Contrary to our usual leas of the diet of these tribes, the fat and blood of the pig are among the ainties served at the banquets of the chiefs. "No Greenlander was ever so sharp et upon train-oil as our friends here," says Cook, of the Maoris ; "they greedily wallowed the stinking droppings when we were boiling down the fat of dog-fish." ats are eaten as a rule only by the common people, in Tahiti only by women. Iost birds are reckoned sacred. Among vegetable articles of food the chief bread-fruit ; then *taro*, yams, and sweet potatoes. Bread-fruit is sometimes aten fresh-baked, sometimes leavened ; Fiji being the only part of Melanesia here the latter is usual. The *taro* is ashed to remove the acrid part, and the our that remains as a sediment is kneaded. y letting the dough ferment the Poly- esians obtain *poi*, their favourite food, esembling slightly sour porridge. It ill keep for a long time ; and baked yam ill keep for a year. In Tahiti the weet potato is eaten only so long as ıere is no ripe bread-fruit. We have lready mentioned the coco-nut, and its reat value as a food supply. In the naller Polynesian Islands the entire ock of vegetable food is provided by oco and pandanus-palms, with *taro*. *Tababo*, or pandanus-meal, dried and oasted, forms, when pressed together, valuable preserve. Here we may men- on the famous earth-eating habit of the eople of New Guinea and New Caledonia. The truth of it is that the former at great quantities of a greenish steatite, the latter of a clay containing iron nd magnesia, which is kept in dry cakes with a hole through them. They do ot do it for hunger, but for pleasure, and after copious meals.

Another vessel of the same material. (British Museum.)

In regard to the manner of preparing all these food-materials, it is a significant ct that most of the Polynesians and many of the Melanesians possess no rthenware vessels, and still less any of metal. They boil their water in wooden essels by dropping in red hot stones ; but they do not use this for cooking, only o make shells open more easily. Cooking with hot stones was formerly more equent, but has become unusual ; coco-nut milk is boiled in the fresh shells over ıe fire. The most common method is to lay the food between hot stones. It ndicates a certain progress when we find the stones, after heating, sprinkled ith water, the whole covered with leaves and earth and so left to itself. Since ıe days of Cook and Forster many Europeans have extolled meat steamed in ıis way far above our roasts. Simple roasting or broiling at an open fire is

pronounced a method of dressing fit only for persons in a hurry or for slav
Cooking is the duty of the men in Pelew, of the women in the Mortloc
European travellers in Hawaii have been amazed to see a fowl tied up in
bundle with a hot stone, to be produced cooked at the next halt. They eat
the open air, sitting on the ground, which is strewn with fresh leaves; hot fo
being carried wrapped in banana leaves. The Polynesians use no salt, b
season their complicated fish and meat dishes with sea-water. The art of salti
pig-meat is said to be known in Hawaii. In many parts of Melanesia salt
only known as a delicacy. To carve and distribute the meat is not held t
worthy of the highest chiefs. Special formalities are observed in eating; y
within the limits of these there is room for an unseemly degree of avidity.
most places men and women must not eat together, nor either partake of wh
the other has prepared. With almost equal anxiety they avoid eating out
the same vessel with another. In ordinary times they take two meals in t
day; but if a great quantity of food has been provided, they sit at it, w
occasional interruptions for dancing, play, and so on, till it is all devoured.

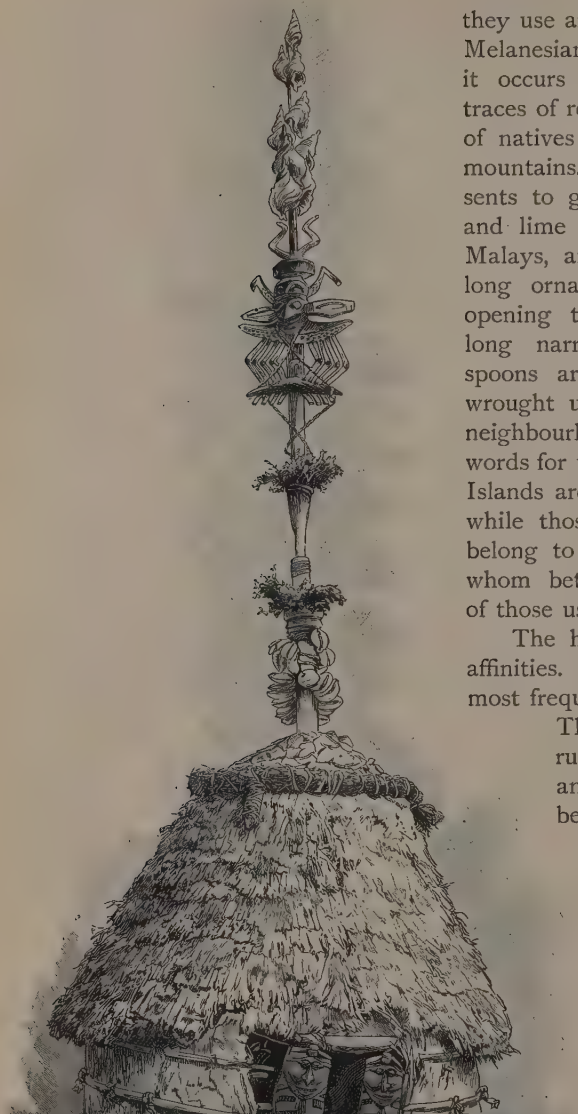
Among agricultural implements the chief place is taken by the primit
stick, cut slanting at one end like a pen, and of about the length of a hay-fo
The men who break up the ground with these are followed by boys carryi
sticks to break the loosened clods still smaller, and at last the earth is, if nec
sary, rubbed fine with the hands, and piled up in little mounds, in which t
seeds or cuttings are placed. Among the Motus of New Guinea six or sev
men stand one behind another with a light pointed beam, which they run in
the ground, heaving up at the word of command a huge clod of earth. Wee
and brushwood have in many places previously been removed by means of
narrow paddle-shaped sharp-edged tool of hard wood, about 2 feet long. So
weeks later the roots are grubbed up with a kind of hoe, which the workm
uses in a stooping attitude, almost level with the ground.

The only original stimulant used in the eastern islands is the *kava* or *a*
the fermented juice from the chewed roots of *Piper methysticum*. The fi
Europeans considered that the use of it had increased rapidly. Even at that ti
it was productive of great mischief, causing dimness of sight and weakness
memory. Yet there are islands where temperance prevails, and even in Melane
it is partaken of in very varying amounts. Some drink it like coffee, oth
carouse from gigantic bowls inlaid with mother-of-pearl. The mode of prepari
kava is as follows: a shallow bowl of hard wood resting on three short feet
placed on the ground, girls and women lie in a circle round it, break off sm
pieces of the dried *kava* root, put them in their mouths, and, when thorough
chewed, spit them into the bowl; water is added, the drink is stirred, and t
beverage is ready. In Fiji it is said that this method of preparation comes fr
Polynesia, and that formerly the pieces were cut. Coco-nut shells, or, as
Tonga, four-cornered cups made of plantain leaf, serve as drinking-vessels, a
are drained with much enjoyment. The drink is a dark grey dirty-looking br
of a by no means pleasant bitter taste. In the *kava* carouses of the Arii
the Society Islands, all the excesses of intoxication were to be observed up
the point of homicide and murder. The mode of calling together those w
were to chew and those who were to enjoy the drink; the songs which accompa
the pressing out of the chewed root; the prayers when the water was poured o

and, finally, the song which celebrates the chief's first draught, all point to an idea of sanctity as connected with this indulgence. Thus in Vaté *kava* is drunk only in the worship of the spirits who dispense health; in Tanna it is drunk as in Polynesia, women being excluded, and a special place allotted to it. *Kava* drinking becomes less as we go westward, and therefore is perhaps of Polynesian origin. At any rate this kind of pepper was probably introduced into some Melanesian Islands from the east. The people of New Guinea also drink *kava* or *kau*, but the practice is not universal, and takes place only on festive occasions.

The drink is not unknown in Micronesia; it is, however, obtained, not by chewing, but by crushing the roots. The mass, after damping, is packed in strips of hibiscus and wrung out. In Ponapé *ava*, which once was sacred, is now drunk like water. In Melanesia also the preparation by crushing is found. Among many Polynesian races *kava* afforded the basis for poisonous drinks; a popular poison among the Hawaiians was made by mixing with it the leaves of *Tephrosia piscatoria*, *Daphne indica*, and the common gourd *Lagenaria*. That the consumption of spirituous drinks was originally almost or quite unknown, is distinctly asserted in regard to New Zealand, New Caledonia, the Loyalty Islands, Waigiu, and Humboldt Bay. In a few places, as Guadalcanar and New Georgia, a kind of palm wine is made, the juice being drawn off by incisions in the unopened flower. We find the same in Micronesia, where the people of Ponapé even distilled a kind of brandy from palm wine. The plague of brandy imported from Europe has, under the influence of the missions, happily been less diffused in the smaller islands than in Australia and New Zealand.

Coco-nut juice serves as the ordinary drink, the nut is held high, and the juice allowed to flow into the mouth, and the same mode of drinking is customary from other vessels; to touch the nut with the mouth is considered unmannerly. As *kava* came in from the eastward, so did tobacco and betel from the west. We can indicate New Guinea and its neighbourhood as the central point of both. Both travel in close conjunction, tobacco having spread with extraordinary rapidity; for instance, in a few years it has overrun the Admiralty Islands and New Ireland. Towards the end of the eighties the limit of tobacco passed exactly through Normanby, now it is cultivated on all the larger groups of the Pacific Islands, and in many places it already grows wild. In east and south-east New Guinea it is smoked with a piece of bamboo, through the small opening of which the smoke is drawn from the bowl and swallowed; this intoxicating practice is known as *bau-bau*. In the Woodlark, Trobriand, and Laughlan groups, the natives profess to have smoked through a reed before the arrival of the Europeans. This was filled with the smoke from the leaves of a certain bush, and then passed round the circle till it was emptied. This reed has been mistakenly regarded as a weapon. The Papuas are great smokers, and A. B. Meyer mentions as a peculiarity of theirs that, after puffing out the smoke through nose or mouth, they form their mouths to a point, and draw in the air with a noise, so that he could always hear when a Papua was smoking in his neighbourhood. Clay pipes have long been manufactured at various spots among the islands, and the Maoris understood how to carve them of stone in the same artistic fashion as is shown in their most original utensils. Betel extends as far as Tikopia, further east it has been diffused in quite recent times by means of labourers who have emigrated or been exported as far as Fiji, but is not yet found in the New Hebrides or



New Caledonian hut (Qu. sacred) after a model; doorposts and roof-ornament supplied from originals in the Berlin Museum.

the Banks and Torres Islands. Where i cannot be got, as, for instance, in Isabel they use an aromatic bark. The western Melanesians all chew betel. Whereve it occurs the teeth are black, and th traces of red saliva speak of the existenc of natives even in the desolate Finisterr mountains. Betel nuts are given as pre sents to guests; areca nut, pepper leaves and lime are used just as among th Malays, and betel pepper is carried i long ornamented gourds with a smal opening through which to introduce th long narrow spoon. Betel boxes an spoons are among the most sedulously wrought utensils in New Guinea and it neighbourhood. It is curious that th words for these requisites in the Admiralt Islands are very unlike the Malay name while those of the Yap Islanders wh belong to the west Micronesians, amon whom betel chewing is rare, remind u of those used in the Admiralty Islands.

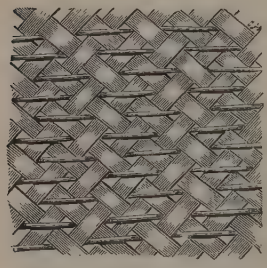
The houses of Oceania show Mala affinities. They are four-cornered an most frequently rectangular, long and lo The long roof of palm-leave rushes, or boughs, often resemble an inverted boat or an elongate bee-hive. The ridge is ca ried by lofty poles, an the eaves rest upo shorter posts, the wall consisting of reeds c mats fixed betwee them. In carefully buil houses the roof is forme of rafters and soun timbers, covered wit mats of banana-lea The larger houses stan on stone foundations i the shape of raised plat forms. In Polynesi and the extreme east c Melanesia, especiall Fiji, the houses fre quently stand on mound

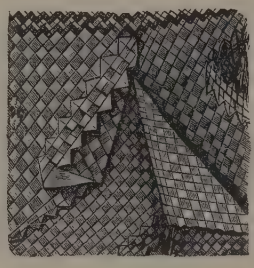
f earth 3 to 6 feet high, the height being proportioned to the owner's claims
) importance. In Samoan huts, the roof, made of round bent timbers thatched
ith sugar-cane or maize-leaves, rests upon a number of shorter posts, the
ıtervals between them being filled up with blinds of plaited palm-leaf. In
ıe Friendly Islands the plan departs curiously from the rectangular, the section
elow the boat-shaped roof being
entagonal; and the same in
aster Island. In Hawaii the
ifferent character of the material
as led to a variation in style.
he boat-form is maintained for
ıe roof, and the frame-work is
ıe same; but the roof itself, made
f thick layers of grass, is carried
own to the ground, creating real
rass huts. In the Melanesian
slands this form is retained with
w exceptions. We find it in New
uinea, where the huts are on posts
rming an oblong of 13 to 33 feet
y 13 to 22 feet; and in the
olomons, where the average length
f the family dwellings is 45 to
o feet, with a breadth of nearly
o. Here the roof, projecting and
ıpported on posts, is thatched
ith sago and coco-palm leaves,
nd the side walls, about 3 feet
igh, are woven in pretty patterns
f dark and light bamboo. Often
veranda is built on to the narrow
de where the entrance is, and
ives a touch of elegance to the
hole edifice; while the roof, made
f leaves laid close together, evinces
ven more careful work. The
ijian buildings also to some ex-
nt fall under this rectangular
yle. Besides those which are characterised by the long roof-tree we find a
econd class, of which the ground-plan is a circle or an oval, and its external
ıark the conical or even bee-hive roof. This is indigenous especially to New
uinea, to some of the groups in the Torres Straits, to New Caledonia, and the
ıdmiralty Islands; also to Fiji and the Solomons. The whole thing often looks
ıst like a hay-rick. The temples differ from the huts only in size and internal
ttings. An advance towards embellishment is seen in the fashion of planting a
ery-red dracæna near the huts.

Roof ornaments and shoring-props from New Caledonia. (Vienna Museum.)

The Polynesian house shows no tendency to soar on high, but grows only in
ngth, even when it is already some hundreds of feet long. Thus, however elegant

the general appearance may be, nothing of architectural importance is arrived a and the building, even though erected with care and amid special rites, is light a not durable. Ruins of habitations are seen only where a stone foundation h been laid. The Hawaiians were the last to give up their grass-huts—long af they had adopted Christianity together with European clothes and utensils ; h even seventy years ago their chiefs were having stone houses built. The p sistence of the Polynesian house in less elevated forms explains the value attach to the roof. When a Samoan village in time of war is fearing an attack, t people take off their precious roofs and carry them to a place of safety. T roof of a New Caledonian house is richly adorned with bunches of leaves a shells. Under the peculiar conditions of the Maoris the Polynesian style und went the greatest variation among them. The ground-plan was the same, but t house had firm wooden walls, with only a small door and narrow window in t front, which faced ea wards. The roof-tree w carried over a porch, a the roof thatched w rushes or coarse gra This simple type can materially enriched carvings. These adorn the first place the ma pillar, which is in hum shape ; also the support of the porch, the gable, a often each individual pie





Mats from Tongatabu. (Cook Collection, Vienna.)

of wood inside and out. In the less genial districts they have winter hous half underground. In winter a fire is lighted inside, and when the coals ha ceased to glow every opening is closed air-tight, till with an external tempe ture of 15° or so the interior is up to 80° or 90°. This no doubt is one of t causes of their disorders, for besides the exhalations of humanity there are al tobacco-smoke and the odours of drying fish, the New Zealanders' "natio perfume." On the other hand, the neighbourhood of the huts is kept clean, a in the palmy days of the Maoris a village would always give the impression tidiness and comfort.

Here and there in Polynesia stone buildings have been found which ha been taken to be habitations. The caves in heaps of stones which are amo the curiosities of Easter Island were perhaps places of refuge in case of w They exist also on other islands. In Isabel, villages defended by palisades f the reception of fugitives have been laid out in the heights of mountains diffic of access. They are called *Teitaihi*, and from the sea look like little forts. Hawaii the boundaries enclosing the villages were marked by walls a yard high.

Although as regards the form of the house it is immaterial in itself whether stands on the ground or on piles, on dry land or in the water, yet pile-building Melanesian dwellings has been carried to an extent found nowhere else ; and ev where it is not, as it often is, seen in its extreme development, it forms a chara teristic feature of life and scenery. Whether on dry ground or in the water, t house is built on piles. Speaking of the village of Sowek on Geelvink Bay (

hich we give a coloured illustration), where some thirty houses stand on piles, at-
ched by tree stems to each other, but not to the shore, Raffray says : " We have in
ct a perfect pile-village, just like those which science has reconstructed from the
rehistoric period." The yet neater huts in Humboldt Bay similarly rest on piles
yard out of the water, but are connected by bridges. The roof rises to a height
nearly 40 feet, and forms a steep six or eight-sided pyramid. The houses more
the interior of New Guinea are likewise built on a similar plan ; and although on
y land, stand upon lofty piles which, with their sloping stays, present a highly
iginal type of architecture as shown in the cut. They hang like eagles' nests,

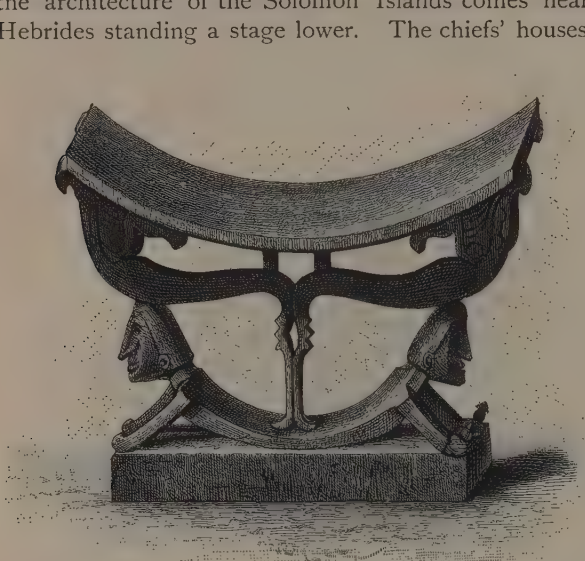
House in the Arfak village of Memiwa, New Guinea. (After Raffray.)

ome 50 feet in the air, on their thin swaying trestle-work, looking as if every
uff of wind must sweep them away. These airy dwellings are entered by means
f slanting tree-stems with steps nicked in them.

Constant hostilities have given rise to a special architecture in New Guinea
nd the Solomon Islands. Huts, known as *bako*, adapted to hold some twelve
eople, are attached to the branches of huge trees at a height of 80 to 100 feet.
he stem below is stripped of all unnecessary branches, and perfectly smooth.
adders made from liana or bamboo, which can be drawn up, serve to climb into
ese tree-huts, in which stones and spears are stored. At the foot of each tree a
econd hut is built, to live in during the day.

The size of the buildings is the expression of social conditions. Where one
mily inhabits the house, as in Polynesia, they are small, becoming larger in

proportion as the family groups adhere to the old custom of a common dwellir Large houses belonging to individuals are rare. In Fiji, where the houses are ve fine, the old customs had been much weakened by the prosperity of the aristocra of chiefs even before the English annexation. As regards size, and in other respec the architecture of the Solomon Islands comes nearest to that of Fiji, the Ne Hebrides standing a stage lower. The chiefs' houses, the capacious assembly a guest-houses, the boa houses, are carefully bu and adorned with carv work, painting, and skull while large pots, orn mental bowls, plaited wo and here and there fi arms form the most highl valued decorations.



Stool from Dorey in New Guinea—one-seventh real size. (Christy Collection.)

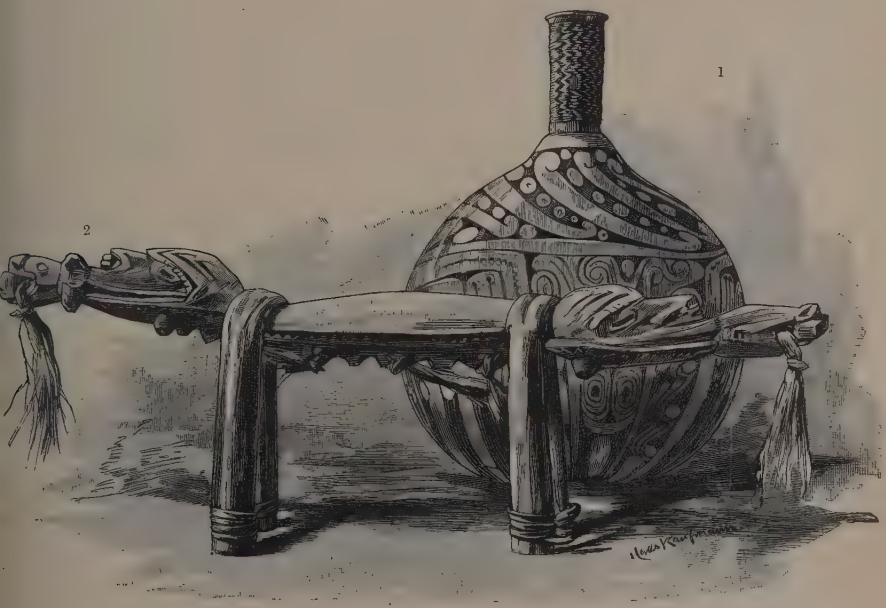
New Guinea the villa halls, called *marea*, a specially notable. Ev in the pile-villages they a found in a reduced for In New Hanover and Ne Ireland they are buildin of moderate size, 12 fe by 25 or 30 feet; so, to in New Britain, where t roof of palm-leaves, pr jecting a little beyond the outer walls, has on either side a kind of turret, on t top of which is a bundle of reeds. It is in Micronesia that the assembly club-houses are most conspicuous. In Yap, Pelew, and Mancape in the Gilber two kinds of houses are universally distinguished —the family houses, *blais*, and the great houses or *bais*. The building of the great houses is a political matter, and as such entrusted to consecrated artificers. They are rectangular buildings, standing alone: in the Carolines on a stone foundation; in Pelew on a platfor of beams, upon which the polished floor immediately rests. Here the princip of pile-building is employed on dry land. In contrast to the care with whi foundation, floor, and walls are treated, the high steep roof seems neglecte no doubt because violent storms frequently take it off. The common hall h generally six similar openings the entire height of the wall, from a yard to a ya and a half in width. These, like the doors and windows, can be closed wi light screens of reed or bamboo. Verandahs contribute to the comfortab

New Caledonian head-stools. (Vienna Museum.)

character of the houses. In the case of the club-houses of New Guinea they are often covered with hangings of leaf fibre. The low door has often a porch of its own.

In the interior of the Polynesian huts apartments are arranged by means of woven work and matting stretched from wall to wall; in the smaller houses at least a sleeping place is divided off. The carving on timbers and pillars, the reed panelling or mat tapestry on the walls, the cords of various colours with which the rafters are bound, hanging down from the roof, lend a cheerful and pleasant character to the interior of the better houses. The floor is carpeted with mats; near the central pillar is a hollow where the domestic fire burns. This central pillar is the place of honour where the master of the house and his head wives sleep, and where weapons

Carved and painted rafters from common halls (*bais*) in Ruk. (Godeffroy Collection, Leipzig.)



1. Gourd bottle from the D'Entrecasteaux Islands—one-third real size. 2. Head-stool from Yap—one-fourth real size. (Finsch Collection, Berlin.)

and utensils hang in tasteful arrangement. Less comfortable is the fitting up of Melanesian houses, in particular of the pile-buildings, the floor of which is formed by cross timbers hardly as thick as the arm and often half a yard apart, rendering a certain amount of dexterity necessary to step over the gaps. In the actual living rooms on either side of the corridor, bamboo rods more closely laid form the floor. There are no windows, since it is thought that ghosts

do not come in through the doors but through openings in the roof. Board covered with a mat form the bed, the hearth is of basket-work with a thick laye of earth on it; long thick pieces of bamboo with the joints perforated for holdin water, sacks of matting, javelins, bows, arrows, spears, have their appointed places In Tahiti there used to be regular stands for utensils, also shelves, and a lon boat-shaped framework on which the dishes were placed at meals. In Samoa huts at the present day a chest stands on the floor in which clothes and sma objects are kept. Chiefs even had a chest of drawers, and similar articles o furniture have been introduced elsewhere in the course of Europeanising. Amon the house furniture of the Tongans, the headstool of hard lancewood is neve absent; the Samoans use as a support for their heads a piece of bamboo half yard long, as thick as the arm, and with short legs. In Yap, the Marshall an Solomon Islands, and no doubt elsewhere, a billet serves. In Fiji, as in Tong Samoa, and Tahiti, this has become a regular stool. In Yap these stools hav faces carved at either end. Seats are of European introduction, and have estab lished themselves only in the huts of the chiefs. Even in the Christian churche men and women sit upon large mats with their legs doubled under them. Th artistic tendency shows itself also in house architecture by the picturesque form given to the gables, often as much as 40 feet high, of the roofs, which reach fa down, often saddle-shaped and woven with carefully-worked thatch. The ree walls, often entirely concealed on the outside by the roof, display on the insid pretty patterns. Where there are three layers of reeds the inner one lie horizontally, and the crossings of the others are utilised to produce these pattern A master of difficult patterns is a man in great demand. Much trouble i expended in Micronesia in the adornment of the club-houses: the exterior i painted and inlaid with shells; in the interior red ochre is used on the walls, an the floor is varnished with vegetable lacquer. The principal decoration consists i winding the reeds with string; also in the carving of the timbers and walls wit hieroglyphics of mythical signification.

The relation between houses and ships exercises a remarkable influence upo the nature of the carved and painted ornaments, perhaps upon the whole styl The walls of the house are made by preference from the planks of old vessels, an bowed outwards. The roof is shaped like a ship, and the whole house is like boat turned over and placed on props. Images of ancestors on the gable or a the side of a house call to mind how the whole house was consecrated from th foundation upwards. Small monuments in the neighbourhood take the form o miniature houses. If one considers that a large house is fastened together only b cords; that the boards, some 6 inches wide, and the massive beams were hewn wit shell axes and finely smoothed; that the planks of the floor are even polished that the holes were made with sharks' teeth gimlets, we may get an idea of th amount of labour expended upon such a building. These works are eloquen witnesses of the height which craftsmanship, art, and comfort have attained whe the age of stone still prevails.

A small number of houses—some twenty or thirty—form a village at favourable spot on the shore, by preference at the mouth of a river, where fres and salt water are at hand. Villages are rare further in the interior, and the only on heights; on the shore they are apt to be hidden behind a belt of fores The mode of life points, indeed, to the sea; in former times it may have bee

otherwise. Everywhere in the hills we find traces of deserted villages, but the present inhabitants know nothing about them. Perhaps the assemblages were once larger; now a village of more than 500 inhabitants is a rare exception. Life in these villages is very varied, often idyllic; each dwelling stands separate, surrounded by gardens and fields, or under the shade of lofty trees. Paved roads are frequent: in Yap they are a yard or two wide and paved with slabs of stone, broadening out in the neighbourhood of the club-houses into a paved place of assembly. Here, and by every old house, flat stones are sunk into the ground as seats. It is in Fiji especially that we hear of well-laid roads and other public works. There a canal called Kelimoosu has been cut through the delta from Bau to the river Wainiki in order to shorten the passage for strategic purposes. New Caledonia shows remains of ancient aqueducts, and in Espiritu Santo the village streets are to this day laid with flints and provided with conduits. A light breath of historic life sweeps with a gentle melancholy round these villages, and round the solitude of the superfluous fortifications on the hills and the stone pyramids which stand man-high in the stone circles of the Nangas.

§ 8. THE FAMILY AND THE STATE IN OCEANIA

The family—Birth—Dedication—Education—Courtship and weddings—Position of women—Marriage—Mother-right—Tribal organisation—The state—Classes and ranks—Aristocratic type of public life—The prince and the nobles—Limitations of sovereign power—Court ceremonial—Warlike character—*Casus belli*—Military organisation—Modes of fighting—Sieges—Sea-fights—Treaties—The *Malo*—Respect for law—Laws of taboo—Punishment of those who violate taboo—Removal of taboo.

AMONG the Polynesian races, the birth of a child is accompanied by an invocation of the gods on the part of the husband or father; while the woman's mother, or one of her near relations, performs the duties of midwife. First, the family deity is called to aid; but if labour is protracted, the husband's or mother's own private god. Dedicatory rites have already taken place during pregnancy. At the moment of parturition the names of all the gods are recited in succession, and the one whose name is uttered as the child comes into the world is regarded as his tutelary deity. Similarly the *Tohungas* of New Zealand, after aspersion, watch the movements of the child, and select as its secret name that word of their invocation which coincides with them. After the birth, the chief ceremony is the cutting of the cord. This is performed in Samoa, in the case of boys, upon a club, to make them brave; while for girls, one of the boards is used upon which the *tapa* is beaten, that she may be an industrious housewife. In Fiji the cord is solemnly buried. As in New Zealand, where children are purified and named eight days after birth, with invocation of the tutelary god, and sprinkling with water, the Morioris of Chatham Island give the name amid hymns from the priests, water being poured on at the same time; and they further plant a *maheu*-tree, in order that the child may grow like it and flourish. Among the Melanesians, simpler customs prevail. A hut is built for the lying-in woman, and some female relation suckles the infant. Continence and purification are enjoined upon the husband also. In Fiji and the New Hebrides neither of the couple eats flesh-meat or fish after the birth, for fear of making the baby ill; nor must the father, for

a month after the birth of his first child, do any hard work. The *couvade* occu
distinctly in San Christoval, where "father-right" is the custom. Infanticide
widespread, and abortion is extensively practised, often merely on account of piqu

Chief's wife of Papua, Samoa. (From a photograph in the Godeffroy Album.)

but often also from vanity—the woman not caring to have children until the thi
year of her marriage. In some parts of the Solomons and the New Hebrid
all children even are killed at birth, and substitutes purchased. If the child is a gi
it has generally more prospect of being kept alive where inheritance goes in th
female line, and where it will carry on the family succession. The birth of twi

not regarded as actually injurious, though there is a disposition to look upon hem as uncanny. If the children are once allowed to live, everything is done for hem with due care. Not only the parents but the relations make them presents. ittle children who are living after their parents' death are adopted by others; they are older, natural ties, as well as the laws of inheritance, are honestly bserved in the traditional way.

The most important epochs in life have their own religious consecration.

Tongan ladies. (From the Godeffroy Album.)

God is closer to man than is always the case with us Christians. In Saa, and on he Leper's Island, toy bows are offered, a week or ten days after birth, on behalf of the boy, that he may be strong; mat-fibres for the girl, that she may be ndustrious. The participation in this of relations on the father's side is a significant infraction of mother-right, which in other respects is jealously guarded. In Hawaii, the child at weaning is brought from the mother-house, *Noa*, to the father-house, *Mua*, and thereby falls under the *taboo* to be presently mentioned.

Thereupon the mother sacrifices a pig to her family god, while the father offe *ava* and implores health for the new scion. At the entrance upon manhood th consecration is repeated in more severe forms, and attended by customs of hardening nature. A general fast is held in the family. The grandfath between whose soul and that of the next generation but one a closer affinity deemed to exist, rouses the first-born grandson from his sleep, and initiates him, a hut set apart for the purpose, into the mysteries handed down from past time or the *Tohungas* of the tribe teach the rudiments of the traditions to such as sh themselves of capacity, especially to the sons of *Ariki* or chiefs, dwelling meanti in the forest, in a house of leaves. The fasts are terminated by eating the pith the *toia-toia*, in order "to cork up the secrets"; followed by a second aspersio After this the youth is fit for marriage. Yet another consecration takes pla later, when the youth, now ripe for his first campaign, stands naked by the riv side, and is sprinkled with water by the priests, calling upon *Tu*. Women a boys are not admitted.

In education the influence of the family is less than that of the villa community or the tribe, as we may see if we consider the frightful extension infanticide in pre-Christian times, at the bidding of these authorities. It w favoured by the ease with which marriages could be dissolved, and the exagg ated view taken of the devolution of the father's position upon the son. Imme ately after birth the first-born boy is invested with his father's name and digni and henceforth takes precedence of him. While the boy is in his minority, t produces no practical results, the father exercising all authority in his son's nam But the child must sometimes be felt to be a burden; for which reason tho freest of free people, the *Ariis* or *Ehris* of Tahiti, recognise no children. Conn tions cutting into and cutting up families contribute still more to cause estrang ment between parents and children—adoption especially. In the Gilbert Islan the parents select the adoptive father or mother, who, when these are people means, intrude themselves even before the child is born. It is the adopti father who arranges the marriage of his fictitious offspring, and in whose hou the young couple live. In this way complete transpositions take place with the family. It must, however, be said that in communities of lax morali adoption makes the descent of children more secure than the recognition of t true children, born under corrupt conjugal relations, can do. The inequality the sexes has a profound effect upon family life and the increase of the ra The reasons that have been assigned for the smaller number of women are t murder of female infants, and the greater mortality of the adult women by reas of too early child-bearing, overwork, and privation, the violence of the men, a licentiousness. The proportion is often quite abnormal: in Hawaii it reach one woman to four or five men.

In Melanesia circumcision usually takes place on the appearance of t beard. On attaining puberty, or sooner, the youth leaves the parental hut a avoids his mother and sisters, sleeping in the common hall, which, except marriage festivities, no woman may enter. The ceremonies at the initiati of the nubile girls are simple, in Samoa no more than a feast with presents. T whole course of life is different where girls are betrothed from their birth, a are brought up from childhood in the house of their intended. In Isabel it even the custom for a girl to live in the bridegroom's family till she is full-grow

In Fiji, when that time has arrived, the bridegroom comes to the house of the parents, offers some whales' teeth as a present, and takes the long-engaged bride to be his wife. Here, as in the Banks Islands, any anticipation of his marital rights is jealously guarded against. If the girl goes wrong she is severely punished, even put to death; and her seducer, if he is caught, shares the same fate. A custom hard to explain is found in the Solomon Islands, in New Britain, and New Ireland—that girls on reaching puberty are locked up for some months in little huts of their own, entrance being allowed only to old women.

The ceremonies of courtship are conducted on the familiar lines. The courting is done on the young man's behalf by relations or friends, who bring the symbolic presents to the house of the girl. These are in Samoa food, in New Britain heavy strings of money, carried on spears. The acceptance of these signifies a favourable disposition; but as this form of courtship is addressed not to the family but to the tribe, the final decision rests with the tribal chief. At the wedding an exchange of gifts takes place, the settlement of which often gives rise to some hard bargaining. The bridegroom gives a boat, weapons, pigs; the bride mats and bark-cloth. In Samoa both tribes used to assemble for the wedding festivities in the public place of the village. The bride, followed by her friends and playmates, well oiled, carrying flowers and dressed in their best mats, walked along a mat-strewn path to the middle, where sat the bridegroom awaiting her. She took her place facing him, on a snow-white mat, while the young women brought the wedding presents, singing as they went. In the days when the chiefs still took a pride in the virtue of their daughters, inquiry into this followed; and great was the applause which greeted chief and tribe if no stain could be shown on her character. The bridegroom's friends then escorted the bride to her future home, where she passed some days in seclusion. This first solemnity would seem to have been only provisional, and the next five or six months a period of probation, since at the end of that period a second festive gathering was held, and the marriage sealed by a renewed exchange of presents. In Melanesia too this exchange but thinly concealed the purchase of wives. The price advanced by the father is repaid by the son; and in the Solomons a widow is at the absolute disposal of her deceased husband's relatives, in the event of her marriage-price not being refunded. The

Old Tongan woman. (From the Godeffroy Album.)

necessity of refunding this is often the only ground of abstention from hast divorces. Among the better-to-do classes of the more advanced stocks, like th Fijians, cases occur, though exceptionally, of marriage of inclination. The acquisi tion of wives by capture still occurs, and the capture can be made good by th payment of an indemnity to the relations, in case the woman is content with he husband. Fights of a "pretence" kind, however, take place between the bride' and the bridegroom's friends, even where there is no trace of compulsion; an a slight resistance on the bride' part is regarded as good manner

Princess Ruth of Hawaii. (From a photograph belonging to Professor Buchner, Munich.)

In various parts of Wes Melanesia marriage is celebrate with ceremonies of a religiou character. Thus at Dorey, o Geelvink Bay, the couple joi hands sitting before an ancestra image, and eat sago togethe under the exhortations and con gratulations of their friends; sh offers him tobacco, he present her with betel. During the firs night the newly-married pai must sit up together while th relations partake of a copiou and solemn meal; after whic the young husband takes hi wife home. In New Britain th couple are sprinkled with coco nut milk, the nut being broke above their heads. The weddin revel with music and dancing i seldom forgotten.

A man frequently takes tw wives, or more, if his establish ment allows. Among poor tribe like the Motus, on the othe hand, monogamy is universal but divorce is so easy that kind of "successive polygamy arises. When the wife is don with she is laid aside or bartered away. In the Gilberts a man can demand th sisters of his wife in marriage, and is expected to marry his brother's widows. Th overplus of women among the Naiabeis of New Guinea decides the point, no les than does in other cases the more usual overplus of men. Peculiar family or ganisations not uncommonly show traces of polyandry. In the New Hebrides, fo example, there is a kind of convention in cases of widowhood, that two widower shall live with one widow; the children belonging to both. Dearth of women ha lately given rise to something similar in the villages of labourers in Fiji, reminding us of the limitations of permitted marriages caused by the *veve* or *veita* system t

mentioned presently. In New Ireland and New Britain widows are claimed as mmon property by all the men. But the re-marriage of the widower is opposed all the female relations of the deceased wife: at first sportively, by using every ssible form of annoyance to make the man keep at a distance, and then in rnest, if he does marry again, by destroying his house, goods, and crops.

Generally speaking, in the simpler conditions of Melanesia, morality stands many respects higher than in Micronesia. Finsch says of New Britain: "The emplary modesty and respectable demeanour of women and girls strikes the aveller coming from icronesia in a specially easing way; and seems rdly compatible with e universal nudity." In me islands, as Florida, e chief maintains public omen, whose earnings to him; but elsewhere thing of the kind is own. Adultery is in any islands punished th death, or (in more cent times) with a fine. alousy is a great cause contention, both public d private. But at cer- n seasons an ancient stom relaxes every tie. the Nanga festival in ji the women are the lling prizes of whoever n catch them in a race; d at the same time all boos of articles of food e taken off.

Women of Ponapé in the Carolines. (From the Godeffroy Album.)

So far as it turns upon e distribution of labour, e position of the women, pecially in the Polynesian region, is higher than among many other races. here labour itself is more highly valued its distribution between the sexes is rer. In Tonga almost all work, even that of cooking, fell to the men; the omen only preparing *tapa* by way of entertainment among a circle of neigh- urs, accompanied by the men beating time. In Hawaii it was the same. oth work together in the fields, but fishing is the men's affair; though omen take part in diving for shells. Among the more needy tribes more is laid on the woman, and with nomads she is the beast of burden. In New aland the women held formerly a higher position. They were not excluded m the discussion of public affairs, not even from councils of war; they even nt with the men to battle. Husband and wife ate together, and the mother

got as much obedience from her children as the father. Only in certain tri destitution produced exceptions. Nothing in all this is altered where "moth right" is valid; for though the children follow the mother, the father is still head of the family, and his wedded wife does not belong to "his side of the hou but remains "at the door." As in affairs of daily life, so even in higher matt two views of the woman's position are in dispute; and here too we find that higher view is taken in some Polynesian groups. But even in the Melanes Islands we meet with both not far apart. In the northern New Hebrides wom seem freer than in the southern, and in some parts of New Guinea her posit in the family is described as one of high esteem. But in Polynesia the not that contact with her is defiling, excludes her from closer association with m at meals, at public worship, and at festivals. In Tahiti men and women h their separate priests; in other islands the women have none, and even a life in next world is not allowed to them on the part of the men. In Melanesia women may not enter the common houses of the men, nor the boat-houses, wh are of the nature of temples. Yet again the Maoris ascribed prophetic gifts the oldest woman of the tribe, while in Tonga there were priestesses who, a drinking *ava*, were possessed and prophesied. In Micronesia their social posit has unmistakably risen. Here it is quite contrary to good manners for a h band to beat his wife or use insulting words to her in public. In Pelew, if woman insulted belongs to the *Ajdit* stock, the fine imposed is equal to that homicide, and if it cannot be paid the culprit must fly the country. The great insult that can be offered to a married man is any ill word of his wife; and one must mention the name of another man's wife in public. A social organi tion exists here for women corresponding to that of the men, and running alm parallel with it. Just as the chief of the men in Pelew must belong to the fam whose seat is Ajdit, so the eldest woman of this family is the queen of the wom Beside her stand a number of female chiefs, with whom she keeps an eye upon good behaviour of the women, holds her tribunal, and gives judgment without a man being allowed to interfere. So too the women are divided into leagues, cal *Klobbergoll*. If these lack the important attribute of the male unions,—commun of labour, participation in the wars, common dwelling in the *bais*,—they have right to levy taxes at festivals and on the death of the military king. Amo their duties are the management of the decorations at festivals, including dances, of which the men openly admit that only the women understand meaning. The men are strictly warned off the women's bathing-places; exac for which reason these spots are selected for lovers' rendezvous. In this case man is under the protection of the lady and her friends. A great auxiliary these tendencies, which prevail in so many districts, towards giving a hig position to women, nay, even to the widespread "mother-right," is that loosen of the marriage-tie which has progressed to the point of decomposing society.

No tie in the whole life of the Polynesians appears to be weaker than t of marriage. Small reasons are enough to undo it, and its undoing is tak very easily on both sides. This goes so far as to make the wife's position one simple thraldom, where she is regarded as the man's property and no more. Wh Europeans in Polynesia wish to secure the favour of native women they have f to make a present to the husbands, who will hand over their wives, compulso if need be. In Hawaii a kind of incipient polyandry arises by the addition to

A Tagal Village : Luzon in the Philippines.
(From a photograph.)

establishment of a "cicisbeo," known as *Punalúa*. Thus in Tahiti women of easy virtue could call themselves *Tedua*, which was also the name of ladies of the royal family. Very often the main object of matrimony appears to be not at all the procreation of children, but the husband's comfort; or, at best, the guardianship of the wife, or some question of money. Besides this, not only the constraint of exogamy, but—at all events in the higher classes—political objects have to be considered. One thing detrimental to marriage is the view that it is not seemly to display the wife to the world as being in confidential relations with her husband. Men never allow themselves to be seen on the highway with their lawful wives, though with a paramour they have no objection. If a stranger stays in the house the wife keeps out of the way. Even the number of children, which is kept as low as possible, is affected by this corrupting influence. It arises in great part from the tribal organisation with its union of men, involving necessarily the exclusion of the family; and even if the family exists beside it, it becomes corroded at the base. The more the system of men's clubs develops, the weaker are family ties. If a girl at ten or twelve years old has not found a husband, she goes as an *armengol*, or doxy, to a *bai*, and becomes the paramour of a man who keeps her. Until she can find some one to marry her—a matter of simple agreement—she can go from one *bai* to another. Often the opposed interests of the wives and the irregular partners lead to quarrels; and for this reason the paramour has a hut of her own built for her in the neighbourhood. Nothing, however, shows more clearly the way in which the superior force of social organisation breaks through the barriers of Nature than the fact that the married women do not object to maintain the girls of the *bai*,—another proof of the subordination of family to tribal interests which the mode of courtship has already exemplified. External life, too, is not family but village or tribe life. The Polynesians are sociable, but it is pre-eminently a masculine society; and domestic happiness is not unaffected by this. In this matter the Negroes are much better.

Owing to the twofold organisation of exogamic society in *hapus* or *veves* a whole list of restrictions, prohibitions, menaces, ramifies through families, and produces a deep influence on the life of these races. The tie by which all men and all women of two different "sides" are connected, is closer than the marriage-tie. Breaches of it are rarely committed and then severely punished. Alliances between people who are "of us" are as bad as incest. The stern law extends even to newly-born children, and twins of opposite sexes fall victims to it. The relation to the parents-in-law has peculiar limitations. The man never utters the name of his father-in-law, and avoids taking down objects that may happen to hang above his head or stepping over his legs. The mother-in-law is avoided as much as possible, and herself avoids looking at her son-in-law; intercourse is only permitted at a distance and with mutually averted faces. If they meet casually, they keep out of each other's way. Mother and son-in-law, and often brother and sister, are careful not to tread in each other's footsteps. If one has walked on the shore, the other does not go there till the tide has obliterated the prints. Towards a brother-in-law the relation is as in the case of a father-in-law; neither his name nor that of son- or daughter-in-law is ever uttered, but mutual intercourse is not forbidden. In Leper Island and in Fiji brother and sister may not talk to each other. What wonder if the domestic life of a Melanesian family is governed by mistrust, jealousy, and aversion? Other things, too, tend to sap family life. Women during preg-

nancy remain separate from their husbands; infanticide, polygamy, adopti have a ruinous effect. The popular philosophy of Fiji says that it is us for a wife to hate her husband, rarer for a husband to hate his wife, rar of all for a woman to hate the man by whom she has had a child bef marriage. Superficial friendliness is common, but few are conscious of a deeper feeling. There is only one natural feeling which lives here as el where, and often enough breaks down all barriers, and that is maternal lo Even this is flawed very soon in Fiji by the bad bringing-up of the boys; father teaches them to beat their mother, and not be cowards enough to do wi a woman tells them.

The practice of shutting off a tribal group by the exclusion or subordinat of marriages out of the tribe has no doubt political importance, but has never h a favourable effect on the family. Where societies connected through the mother are able keep themselves clearly distinct, they are based a cleavage in the tribe, as in the case of exogar Typical cases are the Maori *hapu*-system, and East Melanesian *veve*. *Hapu* signifies the wor in the sense of that which bears the family wit it. Every *hapu* has its tutelary god, who is figu as a bundle of reeds; it cultivates the land in comm intermarries, and inherits by "mother-right." T oldest member represents its rights, especially the event of a partition or division of land. N withstanding that the *hapu* is subdivided into *whar* or families, all the members claim relationship w their chief, and bear a common name, which th profess to derive from the most remote ances Owing to intermarriage within the *hapus*, toget with "mother-right," the *hapu*-organisation d not run parallel with the village-divisions; as rule, several *hapus* are found co-existing in village or *pah*, while the same *hapu* will be dis buted among various villages. Another divisi *iwi*, exists among the Maoris, embracing all w came over in the same boat. The name signifies "bone," and thus a dee foundation, similar to that of the *hapu* is not excluded. In Melanesia term "one side of the house" signifies the same thing as *hapu*, or the t *veve* (mothers) into which the whole tribe is divided. In Fiji it is *veita* "ro The children always belong to the mother's family; the husband's near relations, by whom his own family is carried on, are his sister's children. man must always marry a wife from the other group. The two famil again branch off into four, and these again into several subdivisions. who bear a common name regard themselves as blood-relations, and marria between them are incestuous. This tie is often the only one that holds, a thus it acquires political importance. Here, as everywhere, the exogamic grou possess cognisances, or, as we might say, family arms; most often animals plants, to which they believe themselves to be in some way related. Among t

Fly-whisk, from the Society Islands—one-sixth real size. (Christy Collection.)

Melanesians this symbol is called *tamanin* or *ponto*, "resemblance"; among the Polynesians *atua*. They wear it both in their tattooing and in the ornamentation of their weapons. Inanimate objects also, paddles, nets, whisks, are among these signs, said to have been granted by the gods; and their protective power is honoured by solemn dances. Prohibitions in respect of what may be hunted or eaten are connected with them. That similar relations may at any time come into existence is shown by the sudden cessation of all banana-planting in Ulawu, after an influential man had announced on his death-bed that he was going to turn into a banana.

Fly-whisks (chief's insignia), from the Society Islands—one-fifth real size. (Christy Collection.)

The sacrifice of the family, as if it were a transitory appearance on the surface of the unchangeable tribe, comes most clearly to view in the regulations as to property and inheritance. The husband can take nothing of his wife's property, while when he dies she only keeps what he has given to her. The brother of the deceased is the rightful heir, while in marrying she loses nothing but her name. The right of the female line is valid in the succession; but the right of the male line has already tried here and there to acquire validity, or has even achieved it to a large extent. Property and rank are conferred by the mother; the king's successors are the male offspring of his sister. Thus in Tonga, in the chiefs' families a high rank was assigned to the elder sister or aunt, in the reigning family indeed higher than that taken by the *Tuitonga*. In Fiji the brothers first succeeded, and failing these, the sons. No married princess could attain to this rank. Thus, in Pelew the king's wife is never the women's queen, for it is forbidden to marry in the same family; but the women's titles are like those of the men attached to seniority. Thus, in order to avoid any interlacing of the two spheres of sovereignty, the chief may not marry any chief's daughter.

The children inherit their mother's home, which often leads to chaotic complications. Relationships by the female side, on which the pedigrees rest, fuses with the *atua*-system; the alleged sons of the same mother may not injure each

other, but also must not marry into each other's families. It is indeed a gift the gods. Kubary gives the following extraordinary account of the relati existing in the Palau or Pelew Islands: "The King of Molegojok, with wh Korror is at hereditary feud, is a native of Aremolunguj, while the King of Kor comes from a Molegojok family; both have to fight against their own hon Rgogor, the most powerful chief of Korror, is the son of a native of Ngiw while Karaj, the first minister of Angarard, and Iraklaj, King of Molegojok, are sisters' children, and yet in oppo political camps."

Fly whisk (insignia of a chief), from Pelew Islands—one-eighth real size. (British Museum.)

Class-divisions among the Polynesians are, by reason taboo, as sharp as in the most thorough system of ca They fall into those which participate in the divine, and th which are wholly excluded from it. The aristocratic princi is seldom carried to such an extreme as here, where a st psychology remains inexorable even beyond the grave. Tonga the native people, in contradistinction to the immigr nobles, are regarded as having no immortal souls; while souls of nobles return from the next world and inspire those their own order for the priesthood, so that the connection the tabooed class with the gods is never interrupted. T boundary between these two classes is not everywhere al though the divisions into chiefs, freemen, or slaves runs throu all Polynesia. In the Marquesas the untabooed class compr all women with their male attendants, as well as singers a dancers; in Rapa indeed all men were sacred, and had be fed by the women. Of the men of rank the greater num are connected by ties of relationship, the memory of which preserved by professed genealogists, with the aid of pedigr sticks. The remembrance goes far back. When the pal in Hawaii was dedicated none were admitted save those w were connected with the sovereign in the tenth or some degree. Nobility carries practical advantages in the shape high posts of state. There are oligarchies, where the sma chiefs take their part in the government by performing infe services as diplomatic envoys, intermediaries in secret matt of council, and such like. The child of a chief belonging the *Ehri*, born of a low-class mother, is put to death. But some cases a man can overstep these boundaries, as in Ton where clever craftsmen from among the people are raised to the tabooed cl as *Tubunas*. Outwardly, social intercourse displays itself in pleasing forms.

In Micronesia the division of classes is equally into nobles, freemen, and slav The first, with the priests, are the most influential, the freemen the most numero the two often coincide or break up again into definite classes. Since, however, many cases property gives higher rank than birth, there are nobles who, as own of a district, rise to the position of little kings. Where, as in the Mortlock population of 3500 is divided into ten tribes and sixteen states, the road from chief to the noble is naturally as short as that from despotism to oligarchy.

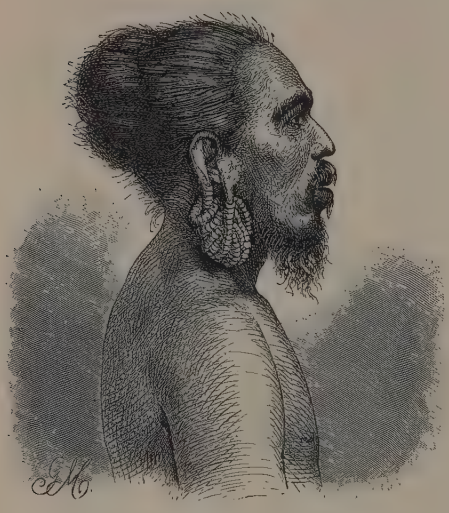
In East Melanesia the classes correspond with the Polynesian divisions.

Fiji we find the distribution by businesses, as in Tonga. Here there are individual tribes who carry on a distinct trade—sailors, fishermen, or carpenters. There are even special villages of fighting-men, fishermen, carpenters, physicians, artists in hair, potters. The most despised of all classes are the coolies. Even in New Guinea every Motu village is distinguished for some one industry, one for its women's dressmaking, another for its shell ornaments, others for pottery or coco-palm planting. In regard to the certain existence of slavery in these districts there is room for doubt. It has always been lightly assumed. In the west, where the feeble political structure does not allow of warfare on a large scale, slavery is often absent; but in the Solomons we meet with it, accompanying a more vigorous development of chief's authority. It used to prevail even more extensively in Fiji where successful risings of slaves even took place.

Paddles (chief's insignia), from New Zealand—one-sixth real size. (Christy Collection.)

An essential part, it not the very nucleus of the state, must be sought in societies, embracing the greatest number of the freemen in the bond of common interests or the practice of a kind of freemasonry. With their secret influence and their public festive gatherings, they are one of the most significant features in the life of these races, especially the Melanesians. Their objects are of a partly political, partly economic kind, and the religious pretext is often solid, but often also threadbare. In the Banks Islands and New Hebrides members of the leagues called *supwe* or *suque* hold quite the place of the chiefs. Their importance is in inverse ratio to the strength of the constitution; and at the same time the influence which each one exercises is measured by his rank or class. Those at the top decide who shall, after due payment, rise into another class; who shall be excluded, and so on; the essential distinction between them and the chiefs being all the less from the fact that in other islands the chiefship is often elective and limited by a council of elders. In the popular tales, the poor orphan boy, favoured by fortune, who elsewhere would marry the king's daughter, here attains the highest rank in the *suque*. Thus in different ways a powerful bias to aristocracy makes itself felt. The best-known society of this kind was the *Ehri* or *Areoi* of Tahiti, who formed a league traced back to the foundation of a god. A grand master presided over each of the twelve classes, the seven grades of which were distinguished by their tattooing; and all were bound in a close comradeship. Being warriors, they must remain celibate; and if they should have children, these must be killed. Their lands are tended by slaves. Even the first

Europeans found the league degenerated; it went about like a dramatic *troupe*, example of low immorality. Every race of Micronesia is broken up into clos united societies. Among the nobles this takes the character of a retinue; and c may occasionally recognise in it some connection with inheritance in the female li Thus in the Ralick Islands the ruling chiefs belong to one clan, their sons another; the chief must marry into the clan of his sons, and descent is reckon by the mother. The Micronesian *bais*, both of freemen and bondmen, appear the same time as phalansteries, with the object of organising labour. These ha been compared with regiments, and the obligation to enter them with compulso service. All boys must be entered their fifth or sixth year. One uni however, never comprises more th from thirty-five to forty individuals pr tically of the same age, so that an old man belongs to three or four *bais*. any one gets a rise in rank, he mu pay a sum of money to each pers belonging to the same. There is a a women's union; but they have house of their own.



Chief of Tae in the Mortlocks. (Godeffroy Album.)

This arrangement recurs in a simi form in Melanesia. We find its earli forms in the West: New Britain h its *Duk-duk;* New Guinea and N Caledonia something akin. Everywh some kind of ghost business comes i it is even implied in the names. T masquerades are said to represent ghos and the strange noises that proceed fr the strictly unapproachable holy plac have a terrifying effect. The *suque* became at last a social and public institutio but formerly it was said to secure for its members a life in a beautiful pla while the souls of non-members remained hanging to the trees like flying-fox The initiated learn nothing beyond dances and songs, and how to mask the selves and how to behave. Less indecency than rumour whispered seems have prevailed in these conventicles. Women and children are excluded; or in the *nangas* of Fiji are women admitted, as is natural. In the *tamata* of t Banks Islands what we may call a lively club-life has been developed. Former hard tests involving physical pain were attached to admission; but now ever thing seems to have become much gentler and more cheerful. In the *Duk-d* of New Britain a secret society assumed the character of a "Vehme," and at la exercised a real reign of terror with its extortions and executions.

Chief among the institutions which are independent of, and work counter the systems known as *hapu*, *veve*, *kema*, etc., stands the family. In Micronesia recognises one head as the common centre of all the widely-scattered membe each of whom is named after his place of abode. This is managed by the eld like an entailed property, attached to his name and title, and inherited by t next eldest. The chief's tutelary god is conceived to be attached to this house,

that it often receives more veneration than the chief himself. While he is alive he has another house built for his wife and children, since after his death they have to make way for his eldest brother, or the eldest son of some former head of the family.

As regards the distribution of property, the Pacific Islands offer a picture of great variety. Between common possession and private ownership lies the curious apportionment of real property, which under "mother-right" devolves jointly, even to the crude form existing among the *Kemas* of Florida, who on the death of a member devour all his goods. In general, here as elsewhere, Melanesia offers the simplest conditions; in Polynesia the transforming forces of the political development in the direction of monarchy, and the husband's power of independent acquisition, have had their effect, and that again more in the east and north than in the south. Even before the inroads of Europeans the feeling for ownership had brought about distinctions; thus in small districts like the Gilbert Islands, the laws of individual property and inheritance are not very different from ours, allowing for the encroachment of adoption, while social position is essentially determined by property in land. But there are a number of institutions which tend to level the differences, as admission by purchase into the higher grades of the secret societies, the yearly suspension of all rights of property during the great festivals, or, in Samoa, the parties of pleasure among friends and relations, at which the sucking-pig plays an important part, and which resulted in so much extravagance, leading to insolvency, that in 1888 King Tamasese found it necessary to put a stop to them.[1]

Ownership in the soil is respected within the close community of the village, but not always beyond its limits. The soil is everywhere divided into village-lands, fields, or gardens, and waste. The former are accurately known, parcel by parcel, while to the last there is no clear title; though in Fiji its alienation by the chiefs seems to have been felt as an infringement of the common rights of property. The sale of land was not at all usual in pre-European times. In view of the facts that the land of the "two sides" often lies mixed up in small plots of ground, so that land which the father has reclaimed is to be found all among the mother's hereditary domains, and that the rights to fruit trees and to the soil may be vested in different persons,

Feather Sceptre from Hawaii. (Christy Collection.)

[1] [For an account of these *malanga*, see Stevenson, *A Footnote to History*, p. 2. He says nothing about any prohibition on Tamasese's part. Perhaps it extended only to the districts owning that puppet-monarch's authority.]

the problems of conveyance are often insoluble. There is no private property
land, only a usufruct through the family which cultivates its piece. Only wha
man has cleared and tilled with his own hand and the help of his children rema
his own and passes to them. Claims to rent on the part of the chiefs do not se
primitive. But at the present day, if in the Solomon Islands a subject omits to ha
over to the chief a portion of his profits from the harvest, or the fishery, or of boo
taken, he commits a delinquency. In Fiji, military services, which took precedence
all others, led in the event of a success to new grants of land, with all the inhabita
as slaves; entailing fresh obligations on the recipients. In many cases the ent
relation of subjects to a prince became one of gifts on the side of the former on
The conditions of property among the Maoris perhaps correspond most nearly
a primitive state of things. We may suppose that no individual possession w
valid here, each regarding the common land as his own. In other places
wounded man could claim a title to ground on which drops of his blood h
fallen. Hunting and fishing grounds remained common property. In Melane
sons could enter as heirs upon property left by their father on condition of
demnifying his nephews by gifts of pigs, teeth, or shells. If he left only daughte
the nephews of the male side inherited in preference; and under this law t
children's property was several, while in the case of nephews and others inheriti
under mother-right it remained collective. Among the Maoris the strict ru
seems to have been broken in this respect, that tribal property was inalienab
According as the husband lived with the wife's tribe, or the wife with the hu
band's, the children followed. But the maternal tribe always claims the ch
of those who pertain to it, even when they have married into another. The lo
which a tribe undergoes by the transference of children born within it, and th
property, to the mother's tribe, the latter endeavours to supply by gifts of lan
But since the children generally marry in the same tribe, the land never pass
out of the tribe's ownership. Class and tribal organisation with the Polynesia
forbids a distribution of the soil among families, but it could not, in the event
the great development of a chief's power, prevent the tribal right from bei
administered by an individual. Thus in Hawaii tribal rights of ownership ha
become transferred to the chief, and his subjects either cultivate a portion of t
land for him, or else have to offer him the first-fruits of every harvest, or rend
compulsory service two days out of seven. Till quite recently he even received
quarter of all wages earned by his subjects. They belonged to the land; and t
lower classes were treated as serfs, bound to the soil. A proof that this depen
ence was patriarchal, and not felt as oppressive, is furnished by the fact that t
sudden abolition of it through Christianity has been indicated as one cause of t
decrease of the population. In Tonga also a similar system has grown up, wh
in the Gilberts the population is divided into *Tokker*, landowners; *Torro*, peop
who are allowed to enjoy the usufruct of the land; and *Bei*, landless varlets, who
the lord can make into *Torro* by a grant of land. The owners govern almo
exclusively, even where there are nominal kings. Almost everywhere in Polynes
indeed, the larger landowners generally exercise influence on the governme
The *Bei*, though distinguished neither by clothing nor way of life, seldom mar
into the higher classes.

The laws of taboo (*tapu*, in Melanesia *tambu*) have developed, especially
Polynesia, in so partial a fashion, that they have passed beyond the limits of

religious ban, and hamper all free movement as much as does caste among the Indian races. Only the law of taboo does not merely divide mankind by impassable gaps, it simply cuts the entire world in two, and that so sharply that the whole excluded portion of mankind was constantly in danger of missing the sacred boundary. Everything on earth, with the exception of men, falls into the two classes of *moa* or sacred, and *noa* or common. Everything upon which the power of the taboo is conceived as *ipso facto* resting belongs to the first, since it is the property of the gods and of privileged men, or always reserved for these. To the second belongs whatever is taboo-free, and so allowed to be used by all men. But in addition to this, taboo can be transferred by mere external contact. It is nevertheless possible to enfranchise by certain ceremonies that which has been tabooed, and thus also to set men free from it. If, in consequence of this, the political and social importance of the notion of taboo disguises its religious nucleus, this exists none the less. We have here before us a conception which has grown out from the religious sphere, the use of which in the art of government early secured it an extension into the political domain, which is no less subtle than unscrupulous. Besides the gods, the forces of taboo are also at the disposal of men who are possessed of the god-like spirit, though, as it appears, not in the same degree. Every one else and almost all women were excluded from it. We may easily see that among these races who bring the divine and the human into extremely close relations, the operations of taboo, originally a divine force, must penetrate intimately all earthly conditions; so intimately, indeed, that in unhistoric minds the idea might easily become established that taboo was in reality invented only for social and political objects. In any case it is very easy to be misled. By means of taboo personal property is secured; at one time that which belongs to a noble, and therefore tabooed, person cannot be used by others; at another time he, as the conveyer of taboo, is in a position to taboo the property of others. It works beneficently if, under fear of a bad harvest, the crop is tabooed with a view of preventing famine, until such time as the chief removes the taboo from the fields. In Tonga, as well as in Hawaii, it was the custom, when great festivities were celebrated with immoderate extravagance, to lay a taboo on certain produce; every landowner can in this way protect his own piece of ground from persons lower in rank; or even such fishing-places as are reckoned private property. The fact that taboo is so frequently laid upon articles of food, is due to the further reason that everything connected with the tutelary deity of a tribe in animal form—the *atua*—must not be touched by those that belonged to the tribe. The soul-eating of the gods, a religious method of expressing wonder at the enigmatic process of digestion, plays equally a part in this, and, lastly, selfishness is not without its effect. Thus, in

King Lunalilo of Hawaii. (From a photograph.)

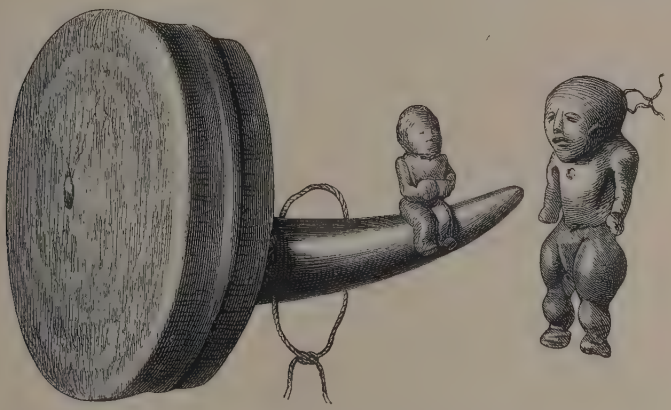
the western islands, there were forests, roads, beaches, which were *tambu*. U doubtedly, in the later times of religious corruption, taboo was shameless misused for the selfish objects of priests and chiefs. Thus once upon a ti

Samoan warrior in *tapa*-clothing. (From the Godeffroy Album).

King Kamehameha I., who more than anyone else profited by this power t serve his political ends, laid a taboo on a mountain near Honolulu, because h took the quartz crystals found there for diamonds. When Hawaii in 184

tabooed for the space of five years all the herds of oxen which were being unmercifully decimated, taboo became a measure of government. The old sacred taboo becomes a police regulation. Formerly its influence cannot have been so extensive, since divinity was limited to the kings; now it has been spread over all the business of life.

Even where the custom itself has become remote from its religious origin, the penalties for breach of taboo have retained a religious character. Thus, too, the strongest trespasses against taboo obviously lay in the religious direction. Desecrations of temples were the greatest sins. The penalties, indeed, fall mostly upon the lower classes and the women; for persons of rank there are means of averting ill consequences. The old faith is falling to pieces; while it still stood unbroken Polynesian religion often demanded what was impossible. In Tahiti nobody



Ear-button and war-amulet of whale tooth, from the Marquesas—two-thirds real size. (Christy Collection.)

might sleep with his feet turned towards the *mawai;* in New Zealand the mere looking at a corpse involved taboo. Sick people were tabooed because the illness was caused by an *atua*, new-born children because they belonged to the gods, women in child-bed on account of the child, and corpses because the soul hovered round them. Whoever had taken up a dead man might not touch food before the priests had made atonement for him by reciting the hymn of creation. Thus breaches of taboo could easily be committed by inexperienced Europeans, and therein lay a main cause of serious conflicts. Let us just imagine how, from the spiritual and secular centres of these races, taboo spread as a burdensome and threatening epidemic. In New Zealand it could even be incurred by the naming of any article belonging to a person of rank. If in any village a strong taboo prevailed, owing to the tattooing of some lads, the whole village was tabooed. In Tahiti, when a man of rank fell ill, the whole district of which he was the head was declared taboo by the priests. Universal silence must reign, no boat might sail, no food be cooked, no fire lighted. Taboo enters into the life of the lower classes in so burdensome a fashion as to produce a universal oppression, which the priests and chiefs well understood how to turn to political account.

Variations of detail indicate that here and there the inconvenience w
mitigated by a tacit understanding. Taboo-free persons were required to fe
those under taboo, a
for this purpose slav
captured in war we
very useful, since ha
ing passed out of t
authority of their ow
tribal tutelary spir
and not come und
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were incapable of vi
lating a taboo. The
must also be son
means of removing
taboo, since otherwi
it would spread b
contagion until all th
free-will and unco
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The removal involv
various ceremonie
Many of its effect
indeed, are indelibl
and are interwove
with the life of gener
tions to come, eve
when they are no long
understood. Thus th
names of dead chie
the spots where the
have died, large buria
places, are tabooe
which explains why
even the more thickl
peopled islands ma
uninhabited tracts a
found. Christianit
too, has been willing to make use of taboo to enforce its requirement of humb
and obedient hearts.

Warrior of the Solomon Islands. (From the Godeffroy Album.)

In the society of the small islands, cloven as it is by reason of mother-rig
caste, and secret societies, and with a powerful priestly class, we seldom meet wi
kings, in the European sense, such as Kamehameha I. Europeans found the
because they looked for them; and many first rose to greatness by means of t
presents received from Europeans and the respect paid by them. In New Zeala
the *ariki*, or divine chief, instructed by his father or grandfather in the sacr
traditions, stood high above secular chiefs and priests. He comprised in hims

the power of both, could put on and take off taboo, or decide the time for field-operations, and the places for burials. On the other hand, the spiritual power or *mana* of the chief, if he were not *ariki* as well, depended on his personal authority; and the *mana* of the priest, if he again were not also *ariki*, was only obeyed in respect of his relation to the gods. Thus, too, hereditary chiefship is only recognised where it is believed that there has been a transmission of the *mana*. The mystical

Fijian warrior. (From the Godeffroy Album.)

element in this conception exercises a great power over people's minds. When a powerful chief in the New Hebrides has his son brought up as a Christian, it is taken for granted that the spiritual force which would qualify him for the succession vanishes. So again in the Solomon Islands the dignity of a chief is in general not hereditary; but the bravest man is elected to the post by the elders. In some other islands, too, the elders have the paramount influence, while the chief's dignity is merely nominal. Similarly the elders are the priests, the mediators between the living and the dead, and what is tabooed by them is sacred. Practical experience has taught white men that in New Britain and New Ireland

even the greatness of power which they wish to see the chiefs possess in t interests of order is hardly to be artificially created ; and the same in New Guin On the other hand, wherever warlike conditions prevailed, the dignity of the ch grew in importance. It was especially so in Fiji, where we have a complete military organisation, under which the villages tributary to one chief, and govern by chiefs of lower rank, were divided into official districts. The appellations the chiefs also point to their military character. Often they appear merely doughty warriors who, if they do not spring from a family of the rank of chie have been adopted into one on account of their courage. Saturated as this is with religion, and military as is its character, a splitting of the kingship betwe a peace-king with shadowy power and a war-king was sure to follow. Th beside the head of the state another figure often towers up, whether the war-ch or, as in Radack, the commander of the great ship. In Samoa the chiefship h undergone a development in the direction of aristocracy ; in Hawaii, in that monarchy. In the Samoan party-fights, which since 1876 have come into conta with European politics, the electoral chiefs always came to the front, while t king appeared dependent on them. In the neighbouring Gilberts the prepond ance of landowners has created a sort of plutocracy. They recur in Hawaii *Alii*, and in Kamehameha's monarchical constitution they held a modest positi as the "assembly of chiefs," with different ranks of taboo. A representati intermediary between king and people appears in some form everywhere ; t *fono* of Samoa, the *aha-alii* of Hawaii, show it in various stages of developme It has a strong tendency to assume the character of a secret society. Spec assemblies are called together by the chief or his representative on importa occasions, especially when war threatens. They deliberate often for days togeth with many ceremonies and lengthy speeches. From this the transition to mode constitutionalism or its imitation was not difficult. The constitution of Kam hameha III. ordained that the heir to the crown should be nominated by ki and chiefs acting together. Failing this the chiefs were to do what was necessa in conjunction with the representatives of the people. Here again the aristocra principle corrects the patriarchal, and thus the high pitch which despotism h reached rests more upon the pressure of class and caste than upon the ov powering will of a single man. Its profound effects can only be explained this way ; only in this way could it permeate all conditions of life. In any ca the effects were far less upon the privileged than upon those who had no righ —the oppressed ; and thence also came the sadly rapid decay of this society.

An element which is often overlooked among the state institutions of t Oceanians is the small size of their territories. On the lowest stage of t formation of states, we find little communes, or little groups of communes, allied blood, which vegetate under their own village chiefs or elders. In the largest pa of New Guinea, even these dignitaries are lacking ; social and family relatio embracing also political, and every village on the whole forming a state of itse In the Ruk group, they speak of thirty-nine tribes and seventy-three states. Sin there is no room for the development of a power founded upon extensive posse sion in land and people, it is less the actual conditions of power than traditio personal relations, and political intrigues, which decide matters in the island grou A certain order of the lands, in point of rank, is traditional from old times ; on one larger archipelago formed a single state, and how often did that fall to piece

The very largest islands, New Guinea and New Zealand, never possessed a single state of any importance.

As in the case of class organisation, so also in the government, there is a patriarchal air. The people are very sensitive on the point whether the king takes trouble, or utilises the advantages of his office to his own profit. Thus in Kubary's time, the King of Korror was deposed for his avarice. In Tahiti, strangers might see the king putting his hand to the paddle in his own canoe, and the meanest man could speak freely with him. These are the humanising effects of nature which bestows her gifts with equal freedom on rich and poor, and of the small scale on which everything was constructed. But traces of an anarchical time emerge even more strongly than those of the patriarchal. Before the nomination of a successor, an interregnum as a change from the preceding and subsequent hard times of compulsion is wont to loosen all political restraints; it is a legalised anarchy.

The high position of the prince is expressed in a number of ceremonies, putting him on a level with the gods. External insignia are reserved for him in the first place. In Hawaii feather-mantles and necklaces of whales' teeth; in the Admiralty Islands double chains of shells; in the Solomons arm-rings of shell, shell trumpets, fly-whisks, and other things. Passers-by had to throw themselves in the dust, to bare their shoulders or strip altogether; the king could only be addressed when sitting, and replied through a special orator. He was greeted by having his hands and feet smelt; in Hawaii, a special court-language was used around the prince, which had to remain unknown to the people, otherwise the chiefs changed it. Samoa also had its court language.[1] In Micronesia, since the name of a chief may not be uttered, he takes when entering upon his dignities a name by way of title. In Kasaie, this name denotes nothing else than god; anything recalling former names is sedulously avoided. A chief cannot eat or drink out of the dish of another, nor may his vessels be used by others, or his house be entered by any one uninvited. Not only have the commons to observe all this in regard to the chiefs, but the chiefs also in regard to their superiors. In the Solomon Islands, any one who steps on a chief's shadow incurs death, or at least a severe pecuniary penalty, the parallel to the Polynesian exaggeration of taboo. From Polynesia, too, comes the practice among Fijian chiefs, of keeping court barbers, who by reason of their right of touching the sacred hair, come within taboo, so that others have to feed them. The heralds of princes are inviolable even in war.

[1] ["For the real noble a whole private dialect is set apart. The common names for an axe, for blood, for bamboo, a bamboo knife, a pig, food, entrails, and an oven are taboo in his presence."—Stevenson, *A Footnote to History*.]

Coco-palm leaf, as a token of peace, from Venus Hook in New Guinea; and paddle-shaped spoon, eight feet in length, for stirring food at feasts, carved with a Maori design, from the Normanby Islands. (Finsch Collection, Berlin.)

Many obscure practices are no doubt connected with the chief's position as prie
Why does the first chief in Erromango receive a stone with a round hole in
Why does the consecration of the chief in Anaiteum consist in being drawn rou
a newly felled tree with his crown on?

The whole existence of nobles and princes on this earth is often regarded
something only transitory, an earthly episode in the lives of these sons of the go
They come from heaven, and destiny holds them fast; they return only as so
to Bolotu; the threads of their existence are attached on high. What wou
then if the same grade of holiness was ascribed to the kings as to gods, and to
other nobles in a ratio diminishing according to their rank? The king, as the hea
of taboo, attains an altitude which is dangerous to himself. Originally, he co
not enter any house belonging to a subject, since otherwise it would be forfei
to him. In Tahiti he had himself carried over land which he was too sacred
touch. The South Sea races have, however, discovered means of averting, at le
in some measure, the evil consequences which must have resulted from this syste

Of all those around the king, his brothers stand nearest to him. Oc
sionally, when he entrusts a commission to a son, he gives him his staff and wh
as credentials; otherwise, the king's messenger carries a green bough. A pri
minister, who, where things are on a small scale, will probably be the command
in chief, forms a necessary supplement to the sacred sovereign. This post is a
held by a priest, as in Hawaii. There, without any definite intention to that effe
royalty assumed a character with two aspects, which found expression also
court ceremonies. Thus it occurred that even when European political ide
began to make their way into Hawaii, the constitutional notion of a leading a
responsible minister was not wholly strange. To the king's suite belong also
keepers of the regalia. In Tahiti, the feather girdle and fillet are guarded
officials. In Nukahiva the chief is accompanied by his fire lighter. Kamehame
compelled the chiefs of the subject islands to live near his palace, and go abo
with him. The value attached to genealogy made the custodians of traditi
an important element of the court. In New Zealand, this office was entrusted
hump backed men, in order that if both chiefs, father and son, should fall togeth
in battle, the custody of the legends might be safe in the hands of those w
were compelled to stay at home.

The exuberant development of trade and finance, especially in East Melane
and Micronesia, was all the more closely allied with politics, from the fact that
king used to have a monopoly of the only two sources of wealth—the manufact
of coin and trade. Here, as on the west coast of Africa, trade enriched the ch
and raised him to a far higher power than he would otherwise have acquired.

Breaches of law are rare. In their fundamental character they were forme
breaches of divine ordinances. For this reason, the penalties are extraordinar
severe, and ordeals of every kind play the chief part in judicial proceedings.
later times, the opposite came about; money penalties became universal, a
formed the chief sources of revenue for the king and the chiefs. But besides th
an offence against the laws involved a certain dishonour; boys and old men w
not punished, as being foolish people. New laws are announced to the peo
with a flourish of the war trumpet; a prohibition to enter upon land, or to pl
fruit, is signified by spears stuck in the ground, or bundles of leaves tied
branches. For private injuries in the Solomon Islands, every man exacts the b

penalty he can with his own fist; but if the relatives intervene, the strife is in many cases appeased, after long speeches and ferocious gestures, by the payment of a fine. In New Caledonia, an adulteress is strangled by one of her own and one of her husband's relations. Persons convicted of magic are painted black, adorned with flowers, and made to jump into the sea.

Intercourse between one tribe and another is conducted through inviolable heralds, old women for choice. These also act as trade intermediaries on 'Change. On these occasions the chief gives knotted cords of rattan and reeds, as many as the articles included in the commission, while the length of the reeds indicates their importance. White and green, in streamers or boughs, are signs of peace; black and red, in colours or feathers, signify war and death. In New Guinea, the leaflets of a coco-palm leaf are partly taken off, then the stem is halved, and the halves handed to the parties in token of peace. Individual tribes form alliances for other objects; those of the Fijians are very expensive, for the allies have not only to be fed, but they have a full right to give their orders as lords throughout the territory of their friends. The intercourse of daily life is strictly formal; in Pelew, the word *mugul*, that is, "bad form," is so all powerful, that only the equivalent for taboo can dispute supremacy with it. As with the Malays and other races, it is *mugul* to ask anybody "what is your name?" though a greeting may quite well take the form "who are you?" The standing question by way of opening a conversation is, "no news?" or "give your news." At parting they say simply, "I'm off." In general, these customs are very like those of the Polynesians, and in former times perhaps were still more so. Thus the ancient form of greeting among the Pelew Islanders, of rubbing your face with the hand or foot of the person to be greeted, recurs in the Hervey Islands, together with the Polynesian rubbing of noses. So again does the reception of friends, with words recited sing-song fashion in chorus. In all circumstances, custom is more powerful than morality. It is optimism to take for morality the indignation shown by Micronesian girls at trifling violations of custom.

The number of weapons in use is difficult to harmonise with the gentle character belonging to most Polynesian tribes. Yet the predominance of militarism is not everywhere merely apparent. The Fijian cannot be described as fundamentally warlike by nature, yet the entire archipelago is seldom free from war. It lies in their circumstances and usages, and is the simple consequence of their numerous independent lordships. A phenomenon no more unusual than the cackling of hens by night, is regarded as a warlike prognostic, whereas in Europe we at least allow ourselves the time which elapses between one comet and another. In Polynesia some races are more warlike than others; the Maoris might be called the Zulus or Apaches of Polynesia. War, as a necessity, passes like a red, very red thread, through the whole life of Marquesans, Tahitians, and Gilbert Islanders. The military renown of the small Paumotu Islands was such that Tahitian chiefs fetched mercenaries thence. The very narrowness of the space contributed to develop such conditions; the smaller the states the more embittered and unconciliatory their politics. An inexhaustible source of hostilities is an accusation on the part of one family group that another has done despite or injury to their dead; breach of promise of marriage is another. Therewith naturally the general prosperity suffers, not only that of natives but also of foreign settlers, so that it has always been the effort of the missionaries to bring about a union of the different

districts. But it has been in vain ; the tendency to small states had sealed the ru of Polynesia long before the people had thought about European culture and t excess of it. Herein lies one of the impediments which has compelled the roo of Polynesian culture to spread laterally instead of vertically ; we need only thi of the way in which the New Zealanders have split up.

To the frequency of wars conduced also the standing organisations of t military character. Kamehameha I. founded a special army the name of which w "eating on foot" ; that is, *always ready for battle.* In the Society Islands a elsewhere, a warrior caste existed as a permanent suite to the chiefs. In eve district may be found a village whose inhabitants possess the right in war time opening the battle. The post in the vanguard is highly esteemed as a post honour, since it secures a special authority in times of peace and a conspicuo share in all festive enjoyments. On all the great islands there are specially wa like tribes,—on the north coast of New Guinea the Mansuari, in Fiji men w adopt a celibate life. The very frequency of naval wars gives rise to a certa organisation, since the guidance of the war-canoes can only be entrusted to practis hands. In sea encounters, boats which belong together are indicated by son common sign—a bundle of palm leaves, a strip of *tapa*, or a picture of an anim on the same material. In just the same way people fighting on land wear son sign by which they may be recognised, and these are changed every two or thr days in order to avoid ruses on the part of the enemy. They paint particul figures upon their bodies in black, white, or red, wear a shell round the neck the arm, or dress their hair in some peculiar way.

But in their opinion every war has sufficient ground ; battle is to them t best solution of a mass of contested questions, and their final arbiter is the god war. Violations of the rights of property, annexation of land, fishing and hunti in disputed districts lead to wars, still more do violations of taboo, marriag between persons belonging to hostile tribes, murder, adultery, witchcraft, and, mo frequently of all, personal insults and blood feuds. Whole generations labour wash away spots on the honour of their forefathers, while to nourish the sentime of revenge is one of a chief's first duties. The Navigator's Islands testify that en of the success of a peacefully working tribe may contribute its fair share to t kindling of ever new wars. That among the causes of war women have their pla can be all the more understood from the fact that a fundamental rule is "Once chief's wife always his wife." Wars of succession are also recorded.

Lastly, a further ground of quarrels is to be found in the complicated feud relations. Connected with this is the fact that in kingdoms so small as these personal relations are thought more of than would be the case in larger states, which further importance is given by the manner in which social ties a indebted for their vitality to the half monarchical, half oligocratic constitutio so that the dissolution of personal relations must also, as observed by Semp relax the political relation of states to each other. It is in the nature of the people neither to break wholly with each other nor to unite with each oth frankly. What prevails is neither open war nor undoubted peace ; small causes a sufficient to evoke a tendency in one or the other direction.

In Polynesia war is conducted with formalities no less strict than those whi govern peaceful intercourse, and within their limits it often proceeds in a fai harmless manner. As a chronic evil it became converted into a settled institutio

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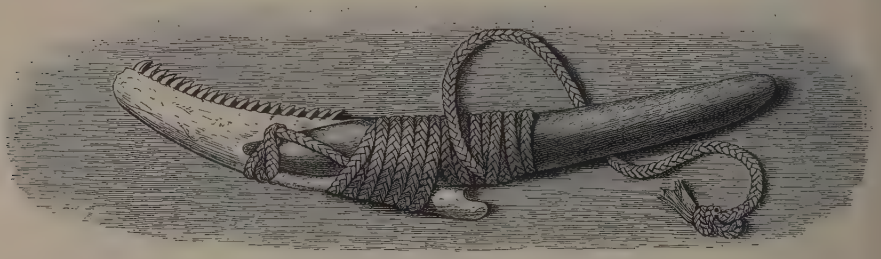
AN AUSTRALIAN FAMILY-PARTY FROM NEW SOUTH WALES.

Head-stealing is partly the object, partly the symbol of warfare. It can never degenerate into aimless murder; and it is rarely that more than one man is killed. Both sides know quite well what is taking place, and cunning on one side is met by precaution and indefatigable vigilance on the other. This kind of warfare is recognised by the Micronesians as a chief institution of their political life, for the further reason that it is essential to the provision of means for meeting state-expenditure. The head chief pays with his own money. He has considerable outgoings at his accession, and must defray those of all the *muis*, *ruks*, and other festivities. But the country pays no taxes, and the expenses must be met somehow. That is the use of the war-dance. The head chief travels through friendly districts with a head which his warriors have secured, executes the war-dance, and receives for the performance a fee proportionate to the size of the country. But, in order to prevent too great a drain of money in any one direction, the rule is that when one village has finished with the head, another has a turn with it. Thus, though by a somewhat unusual method, the very usual object of keeping money in circulation is attained. Head-hunting is common in New Guinea, as, for example, among the Tugeris, who cut off the head with a bamboo knife; and so too in the Malay Archipelago. Among the Motus he only who has killed a man may wear the half-skull of a horn-bill in his hair. A woman will do; and there is no objection to the employment of treachery.

Unluckily, where things are on a smaller scale, as in the Marshalls, war degenerates into an incessant devastation of fields and plantations. It is therefore easy to understand why bullet-proof houses of stone are supplanting huts of wood and straw. There is nothing about which the gods are so keen as war: nor is anything an occasion of larger sacrifices. Before coming to blows with men, it is necessary to come to an understanding with the gods. Temples half buried in weeds are tidied up or rebuilt. The greater the sacrifice, the firmer is the confidence. Among the Maoris the priests had to decide whether or not the war will be victorious. Sticks were stuck in the earth, and if they remained upright it denoted a loss, and the war was deferred. In other cases food was cooked for the gods and the fighting-men; then the troops started, followed by slaves and women, who had to attend to transport and commissariat. All warriors were "taboo." The command was allotted to the boldest fighter, who was also expected to be adept in the kind of eloquence calculated to rouse the courage of the warriors immediately before the fight. He would spring forward in the front of the line, and with glowing words extol the greatness and the fame of the tribe, the favour of the gods, the valour of their forefathers; but while enumerating the injuries which had yet to be avenged, he would avoid bringing into prominence the dangers of the moment. The excitement rose to the point of fury. The warriors, kindled by the discourse, would fling off their mats, smear their bodies with charcoal and the sacred red-ochre, adorn their hair with feathers, and dash into the war-dance. In this they would expend a good deal of bodily strength, with the view of kindling the passion of battle in their hearts; they crouched down in rows one behind another, leapt up suddenly at the word of command, jumped on one leg to one side, then on the other leg to the other side, with their *meres* raised aloft, and then leaping off both feet into the air, brandish their weapons, shouting their songs in quick time. Old women, smeared with ochre, danced in front of the lines. Then the most renowned warriors advanced, and challenged the foe

with opprobrious language, such as Pritchard heard in Samoa. "You banana-eaters of Manono, let Moso twist your necks!"—"You coco-nut eaters of Aana, may your tongues be torn out and burnt."—"Here is my club, to knock down those Savaii pigs. Where is the Savaii pig who wants to be killed?"—"Fry that Atua-king, who shall die by my spear!"—"Here is the man-eating gun!"—"Where are they, that dirty herd who pretend to be men?" Finally the two sides would dash furiously upon each other, and a series of single combats would ensue. The event would be decided by the fall or the victory of some one great warrior and the consequent retreat or advance of his side. It was seldom possible to rally the fugitives; his back once turned, every man ran for his life. The victors returned from the pursuit to the field of battle, and marked with their spears the spots where warriors had fallen. The Maoris used to examine especially if they had had their fists clenched; if so, they had fallen in the moment of victory. Their own wounded they carried away. Then they placed one of the



Sacrificial knife, available also as an instrument of torture, from Easter Island—one-half real size. (Berlin Museum.)

enemy's dead aside as an offering to the gods, and laid the heads of the others at the chief's feet. The wounded were tortured and clubbed to death.

Gunpowder has changed the style of fighting. The islanders, with their dislike of danger and preference for attacking only when they have a manifest advantage, took very readily to fighting at a distance and promiscuous shooting from ambushes all day long. The art of taking cover developed more rapidly than that of attacking. In Fiji they fought around fortresses made of wooden palisades: the women and children having been removed, before the siege began, to a place of safety. Spears were thrown and stones slung from side to side, even red hot stones to set fire to the woodwork, but the besieging party seldom arrived at assaults in the open. Treachery, stratagem, hunger, intimidation, were the principal means to which they resorted. Clever utilisation of natural advantages in the ground, palisades, ramparts faced with stone and loop-holed, and, in the case of fortified villages or *pahs* in the plain, muddy ditches as well, added strength to the defence. The chief entrance was flanked by walls in the form of bastions and the gate formed of sliding timbers. For naked aborigines a thorn hedge makes an almost impenetrable rampart. Within the fortress a sentry was posted in an elevated position; the sign of danger or of a threatening attack was given by drums. When the wind was favourable they challenged the enemy by flying banners and dragon-like things of many colours in his direction, but a war of this kind often ends without bloodshed. Traces of an international law, which has in view the

mitigation of even this kind of war, may be recognised in the fact that so long as their patience holds out both sides spare the adversaries' fruit trees. On the other hand, we find no trace of any idea that it is more honourable to win in open fight than by means of cunning and ruse, and accordingly there are no limits to the artifices which may be employed in war. The rage of the victors often spares neither women nor children, and in this respect the greatest atrocities have been committed. Even Fiji has its legend of the chief's leap,—a fugitive chief is said to have thrown himself in desperation from a rock in the island of Wakaia.

The objection of the Polynesians to action in the open is marked also in the little use which they make of their boats in actual sea fighting. The famous war canoes served mainly for transporting the warriors, and aquatic engagements only took place when hostile war-canoes met accidentally. The method was to upset the opponents' canoe, which rendered it easy to club to death the helpless swimming crew.

Human lower jaw set as an armring, from New Guinea. (Christy Collection.)

As soon as the lust of battle is appeased on either side, and the accurately kept debit and credit account shows that winnings and losses are balanced, the armies take steps towards peace. The intelligence that peace is desired is conveyed by neutrals, and either side sends as herald some old man related to both and gifted with eloquence. The periods of hostilities are concluded by carouses, though deep down in all hearts a secret wish of beginning again at a seasonable moment is still active. Treaties of peace are in reality only armistices. The Samoan system, known as *malo*, which went so far as to slay the vanquished when he approached with signs of submission, to carry off his wife and children, and ravage his fields and houses, or else to a gradual ruining of him by extortion, not unfrequently compelled the flames of revolt to break out afresh. Whole tribes have been known to migrate in order to escape oppression of this kind. In 1848 the whole population of Western Upolu removed to the eastern part of the island.

Many features in the existence of the Oceanians can only be understood when we realize the small value attached to human life. This hangs together with the over-population of island areas, and has contributed powerfully to the formation of colonies, but it leads also to depopulation, and throws a sanguinary gleam over all their social life. Human sacrifices were universal in Polynesia before the time of Europeans, and cannibalism was extensively practised. Both are closely bound up with religion and war, while human sacrifice is intimately connected with the festivals of the dead. In certain sacred functions the priest required it. Thus men or portions of men—for example eyes, which were regarded as pleasing to the gods—were buried in the foundations of temples; while at the building of war-canoes human sacrifices were absolutely necessary. The gods to whom men were sacrificed were various, but the principal were Tangaroa and Oro; the killing was done in Oro's temple, and the victim deposited in Tangaroa's. As everywhere, the largest number of human victims was furnished by prisoners of war and slaves. The selection of the victim depended in some places upon the priests, who, after some time passed in the temple, came to the people

and indicated the victim whom the deity desired. The Maoris used after battle to collect the bodies of the foe, cut off scalp and right ear for the go and dig two rows of cooking pits, in one of which the cooking was done for gods only. When the meal was dressed the chief first swallowed the brain a eyes of one of the fallen, raw; then followed his sons or nearest relatives, a after them the whole company fell to upon the hideous meal. On these occasi gluttony was the rule. What remained over was packed in hampers and sent neighbouring tribes who, by the fact of accepting and consuming the prese declared themselves friends of the victors.

Returning home, the troop bore the heads of its slain chiefs as sacred rel while those of the enemy were fixed on spears. For every chief who had fal the life of one of his slaves was required, while the heads of the enemy w stuck on the palisades surrounding the village, and derided. Then followed ceremony of taking off the taboo from the victorious force. Scalp locks w fastened to reeds, and with these the warriors executed a dance to the chant of the priest. The business was concluded by the tedious task of mummify the chiefs' heads. These were boiled, smoked, and dried in the air; brain, tong and eyes were removed, tattooing and hair preserved. The very form of lineaments was often still recognisable. Some tribes in the neighbourhood of East Cape are said to have mummified even entire bodies. Others fixed eyes bright stones in the skulls; and in New Britain these were on great occasi worn as masks by the younger men, that they might acquire the spirit of th former owners. Among the Maoris cannibalism was undoubtedly always co nected with revenge, and their wars were always wars of revenge. This tr deserves to be remarked as distinguishing their cannibalism from that which assumed either a more everyday character, or one distinctively religious.

When we find the traditions unanimously affirming that cannibalism was practised among the earlier generations of immigrants, we may no doubt imag it to be one of those phenomena which correspond with a certain retrogression the public life of the community, brought about by internal quarrels; but furth that it came in with the increase of the population, which in many islands undoubtedly to overcrowding. It disappeared and came up again, showing th there was always a favourable soil for it somewhere. We are led to the sa conclusion by considering its geographical distribution. Well-ascertained cent of undisguised cannibalism are noticed in places so far apart as New Zealand, t Marquesas, the Palliser Islands, and the Paumotus. The Hawaiian and Tahiti groups, the Society Islands, and, for a period, Tonga, were free from it duri the time of the more frequent visits of Europeans towards the end of the l century. But throughout Polynesia there exist both objects and legends in wh traces survive of a time when it extended more widely. When we find that the Marquesas cannibal feasts were preceded by the cutting off of the victi hair, to make arm-rings and necklets of magical potency, we cannot f to see a cannibal significance in the frequent use of human hair to ado spears and helmets, or of human bones and skulls as drinking-vessels; in the Hawaiian custom of putting the eye of a human victim in the used to anoint the king. Strong men's bones are available as talismans. New Zealand, fish-hooks were, according to Forster, furnished with a jagged of human bone. The people also had necklaces of human teeth; and

awaii a bone hung round the neck by a string of human hair counted as a high stinction.

The notion of the gods eating souls runs all through Polynesian mythology. Aitulaki a god was called Terongo, the man-eater. Tangaroa caught souls th a net or a noose and ate them up. Souls of people who died suddenly were voured by the god. This conception might easily pass into that of eating the dy with the soul; and therewith human sacrifices, and, in the uncertainty of e boundary between divine and human, cannibalism received a divine justification.

Among most Melanesian tribes cannibalism is a settled institution, often in very extensive degree. In many places it has, for various reasons, disappeared, in Teste between the visits of Moresby in 1872 and Finsch in 1885. Elsehere human flesh is in such request that even the remains of a relative who has ed a natural death will serve for a repast. We find also examples of a recent ttension of the bad habit by a sort of infection. Thus Saa caught it from San ristoval, Florida from somewhere to the westward, perhaps Savo. The Torres landers bake the heads which they have captured, and eat the eyes and pieces om the cheeks. The Fijians used long wooden forks, to eat not only prisoners war, but members of certain particular tribes who were condemned to deliver e of their number for a cannibal feast. In the Solomons prisoners were even ld for cannibal purposes. Brown the missionary was told in New Britain that ey retained the custom with the view of intimidating their enemies. When we nd a human skull with the back smashed in, the brains having been swallowed rough the opening, we may safely infer cannibalism; and such are found in antities on D'Entrecasteaux. Cannibalism often merely expresses hatred and ge against a slain enemy, just as when a captured foe is burnt alive. A craving r flesh meat can seldom be assigned as a cause; most readily perhaps among e indigent natives of New Caledonia. Yet even these go back to mythology and eclare that men are fishes and therefore eatable. Human sacrifices, with subseuent consumption of the corpse or portions of it, form in Oceania also a mainay of cannibalism. One receives the impression that life in those parts is ways passed under the foreboding of being sacrificed. Cannibalism has also en maintained where it would otherwise have disappeared, owing to its associaon with skull worship. The Hattams, among whom it is a custom to decorate eir dwelling-houses with the heads of dead persons, desecrate the graves of their eighbours in a shameful way, and at every feast in honour of a newly-captured ead cannibalism blazes up afresh.

Infanticide was a recognised institution in Polynesia in pre-Christian times. he language has formed special terms for burying alive, stabbing with a splinter bamboo, and strangling. In Tahiti some mothers had killed ten children; the ly gleam of light in the blackness of this crime was the strict adherence to the w that a child had escaped death if it had lived for even a short interval of time. ortunately there were cases enough where natural maternal feeling got the better convention. Williams the missionary asserts that every time a mother urdered a child sprung from a misalliance, she advanced a step in rank, until e at length reached a point, corresponding to the number of her infanticides, at hich she was permitted to let her children live in future. In not a few districts this favoured region necessity was the motive for infanticide, but indolence ill more so. The natives in justifying the practice frequently approximated to

Malthusian principles. The dislike of bringing up more girls than necessary w an equally prevailing cause. War, the priesthood, fishery, and sailing, w regarded as forms of activity to which it paid to bring up boys, and thus disproportion of the sexes was so great that one woman was often wife to f or five men.

§ 9. RELIGION IN OCEANIA

Universal animation; the conception of *Atua, Mana, Ani, Kalit*, and the like—Creation of gods—Hero-wor —*Atua, Oromatua*—Gods of the sea, the air, the land, daily occupations—Animation of beasts, plants, stones—Cosmogany and mythology; views of Nature—Beginnings of metaphysics—Legend of Papa Kaka—Separation of Heaven and Earth—Rangi-Ru and Maui—Maui as deity and animating princip earthquake, fire, and sun—Hawaiian and Maori Mauis—Wakea—Tangaroa the Polynesian Zeus, go the sun, the firmament, the horizon—Tii as a variation of time—Tané, god of the sky—Hina, goddes the moon—Gods of Olympus and Hades, Hikuleo, Milu, Pele—Hero-gods: Meru, Moso, Oru, Ma Priests; universality of the office—Priests and chiefs—Priest-kings—Consecration of priests—The pri functions—Temples and places of sacrifice; various kinds of sacred places—Graves as places of veneratio Temples—Lack of genuine idols—Embodiments of gods—The *Tii*—Stone images—Feather-idols—Gr and funeral customs; stay of the soul near the body and about the grave—Various forms of interme Skull-worship—Sacrifices to the dead—Burying alive.

UNIVERSAL animation, or the endowment of all things with a soul, is the bro foundation of all religion among Polynesians and Melanesians alike; everythi even to the utensils, had a soul or was capable of having one. We must r however, conceive this animation as exclusively of an ennobling kind. The wo *spirit* and *soul* indicate generally any expression of life. The squeaking of r the talk of children in their sleep, is called "spirit" in Tahiti. But by the syst of embodying tutelary spirits, souls are consciously imported into objects, a accordingly, just as a future life in Bolotu is assigned to the souls of men, bea plants, and stones, so it is also to the implements of every kind of handicr Thus this system led to the primitive pantheism which found its most characteris stamp in the conception universal in Oceania of the *Atua*, *Akua*, or *Hotua*.

Atua in Polynesia indicates the spiritual in the widest sense, *tua* apparen standing here in the sense of the other world: it is God, deified man, spirit, sc shadow, ghost. The word is consciously used in a generic sense just as *mana* in Melanesia. Codrington says it is a power or influence which is in a cert sense supernatural, but expresses itself in any kind of force or superiority wh man may possess. It has no fixed connection with anything, and can be tra ferred to almost everything. But spirits, whether disembodied souls or sup mundane beings, possess it and can impart it. All the religious rites of Melanesians consist in obtaining *mana*, or deriving benefit from it. The ot world can become practically effective for the living, either through the mediation departed souls which wander between heaven and earth, or by the entry, whet temporary or permanent, of a god into an earthly object. In this way the tutel spirits who are extraordinarily important in the practical service of the gods, ca into existence. Their inspiration is desired because they bring to knowledge t which they have acquired in their intercourse with the gods of Bolotu. If th do not come willingly it is sought to constrain them by prayers and sacrifices, a in the last resort, by the incantations of delirious ecstasy. The Polynesian *a* recurs in the *Ani* or *Han* of Ponapé, the *Kasingl* and *Kalit* of the Pelew,

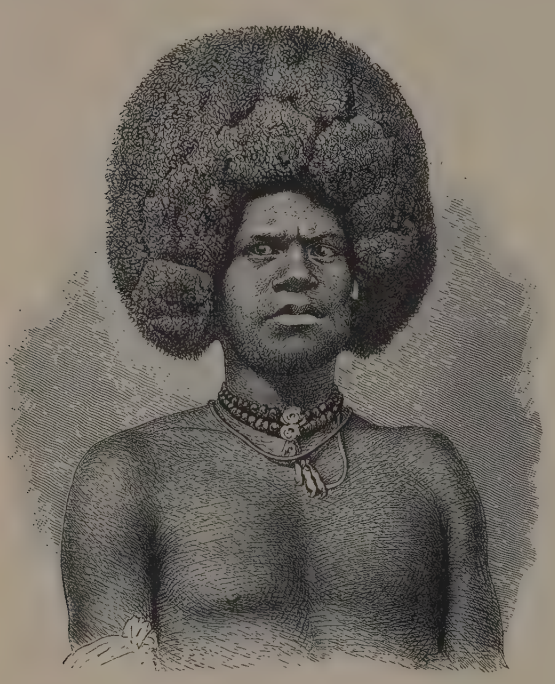
nut of Kusaie, and the *Yaris* of Tobi. This spirit worship which is directed wards creatures regarded as animated, appears in many places to have degenerated into pure beast worship. Thus in the Mortlocks the bastard mackerel *ranx*) is reverenced as the god of war, and the Kurnai see in the Australian warbler d the azurine the creators of the sexes. That the animating element is also underood by Kalit appears from the fact that a Kalit is assigned to dead objects; mper was asked by the Pelew Islanders about the Kalit that ticked in his watch.

The *Vui* of the New Hebrides dwell in a region called Panoi. They stand relation with deified ancestors, and are invoked in case of danger. All serious nesses, on the other hand, are attributed to magic, or the evil influence of the *tai* or *Tamate*, who are the souls of the dead, and as such very distinct from the *ui*. No sooner has the soul left the body than it enters upon its wandering, hich ends in various ways, according to its rank and deserts. At first it does ot go far away, and by a combination forces can often be recalled; to which d the relations round the death-bed ll out, loud and impressively, the name the departing. It is believed that mediately after death the soul can be captured. In a Gilbert Island dirge, e dead man's wife calls upon him as bird, which flies ever farther to its me and its adoptive parent.

Ancestral image (*Korvar*) from New Guinea—one-fourth real size. (British Museum.)

Wherever the two classes of spirits -those which had been souls, and the her which had never been in human rm—were kept distinct, as was the case the greater part of Melanesia, the vine worship of particular personalities easily developed from the cult of souls general. The Fijians, accordingly, stinguished between original deities d deified beings. They prayed to the ages of departed relations, or arranged th living relations to raise them to vine honours whenever they should die. man when in danger invokes the spirits of his father and grandfather in ll assurance that they hear. The souls of old chiefs are deified after their ath, and invoked by name with sacrifices. A certain gradation is imported to this troop of spirits and souls by the distinctions of rank which prevailed nong their former earthly tabernacles. For this reason the destiny of the uls of chiefs and priests which have quitted the earth is materially higher an that of the lower classes, since even in life the former were inhabited higher powers, and these will have a yet more powerful effect when ed from the bodily husk. Since the souls of chiefs go to the stars, while hers wait upon or within the earth, the stars are designated simply as the uls of the departed. As these take their way upward in the darkness they are course easily seized and dragged about by evil spirits. The origin of divine

honours in many cases falls almost within the recollection of living peopl Warriors reverence as a war-god the ghost of some champion whose bones an hair have the effect of amulets. Great works, such as the stone terraces of Waie in the Marquesas, were referred to gods, and men who had produced such thing were raised to the rank of gods. Deification of heroic men was often quite matter of notoriety. Tabuarik, the most respected god of the Gilbert Islander was formerly a chief. Now he appears sometimes as Hai, sometimes he live above the clouds and thunders, on which occasion the face of his wife may be see flashing through the clouds. Tamatoa, the chief of Raiatea, was reverenced a a deity even in his lifetim Even in the legends of th great creating gods we fin indications of the notion tha they have been men or ca become so again, and a descen from the height of deity is a idea that constantly recurs.



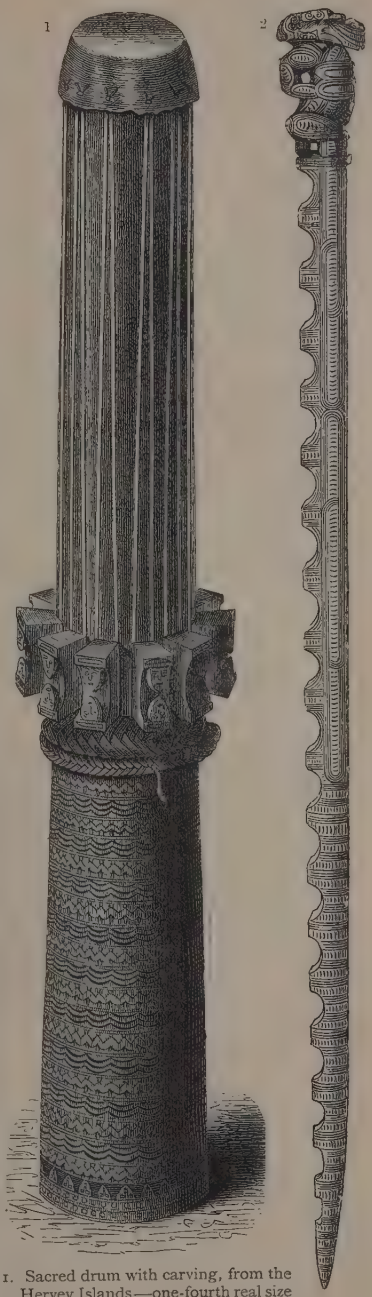
A Fiji Islander. (From a photograph in the Godeffroy Album.)

Spirits which never wer souls appear on a higher leve A Banks Islander of the olde generation explained a *vui* t Codrington as follows: "I lives, thinks, has more intell gence than a man, know things which are secret with out seeing, is supernaturall powerful with *mana*, has n form to be seen, has no sou because itself is like a soul They cannot, however, con ceive even a ghost as entirel formless, and thus many asser that they have seen a ghos as vapour, or smoke, or som other indefinite form. Ghost of this sort also pass into men; in Mota *nopitu* is the name both for a ghost an for one possessed by a ghost, while in the Banks Islands good spirits of the natur of elves or gnomes are known as *nopitu vui*. They give gifts to honest men an feed the poor; their presence is betrayed by a tender sound like the song o children. Places where they like to resort are *rongo*—that is sacred, as if the were tabooed. And even though they are themselves invisible, this connectio with something corporeal affords a platform upon which they can be treate corporeally. All stones, trees, and animals found in such places are equally *rongo* The idea is extended also to such animals as appear frequently in dwellings—lizards, snakes, and owls; particular parts of a stream can also, for one reason o another, be *rongo*. The ghost is estimated according to the object in which h dwells, and whoever understands this estimate is counted able to mediate for othe men with the good spirits. He must enter the *rongo* place alone, and offer sacrific

ere; as he does this he prays and lays the rifice upon a stone which is believed to be nnected with the spirit. At one festival the ians used to call the water babies, enticing em ashore with toys laid on the bank, and lding little banks in order to make it easier them to climb up. With a similar inten- n in Anaiteum the roads which led from sacred groves to the shore might never be cked by hedges. But if prayer is made to *Vui* to bring sickness or other evil upon an emy, though he can provide the suppliant h ways and means to do it, he never brings out the trouble himself, since he is a good rit.

With spiritual beings in such superabund- ce, no striking aspect of Nature remains provided for, and thus thousands of nature- ds come into existence, who are nothing but alised spirits or souls. The sea alone is ed by some twenty of them (see woodcut on 39). Some of them employ the large blue ark as their instrument of vengeance. Sharks fed on fish and pigs till they acquire the bit of approaching the shore at certain nes; and the natives could assure you that ey came at the bidding of the priest. nother famous sea-god is Hiro, originally a ld and ingenious native of Raiatea, who ned the ancient band of gods so recently t until the fall of paganism his skull was view in Opoa.

Chief among the gods of the air, who are en worshipped in the form of birds, are two ldren of Tangaroa, brother and sister. They ell not far from the rock that bears the th; and any neglect of their worship they nish with storms and tempests. They were oked to raise hurricanes when a hostile fleet s fitting out. Even at this day many anders believe that in old times evil spirits d power over the winds, seeing that since general conversion to Christianity there never such terrible storms as formerly. e upper regions of the air are also peopled h higher beings. All the heavenly bodies re looked upon as gods. When the sun the moon is eclipsed, some offended deity



1. Sacred drum with carving, from the Hervey Islands—one-fourth real size (Christy Collection). 2. Stick calendar of the Ngati Ranki tribe in New Zealand (British Museum).

has swallowed it; and he is induced by abundant gifts to set the orb fi again. They see gods or souls in meteors; and Lamont mentions the case of boy in Penrhyn who wept at seeing a falling star, believing that the soul of ancestor had appeared to him. Fairies that inhabit the mountains become visib in cloudy weather; and cloud is the offspring of Rangi, the sky, and Papa Anuku, the wide plain. Giants with fiery eyes live on solitary islands, like t desert volcanic island Manua near Raiatea. In Hawaii are haunted places whe ghosts go in procession to the sound of the pipe, and whoever hears them di Prognostications surround the whole of life with a dense network of inevitable co sequences, and superstition has little trouble in discovering the most probab connection between cause and effect. Thus the subjection of Tahiti to a Fren Protectorate was foretold by a crack in the post supporting the palace gate.

Lastly, spiritual beings preside over individual occupations. Special go send the migratory fish inshore at stated times; special gods are invoked fishermen when they are making nets, going on board, or working at sea. S too, agriculturists, carpenters, house and boat builders, have patterns peculiar their craft. Even games are under the tutelage of five or six gods; and not le particular crimes and transgressions. The chiefs think it no shame to invo Hiro, as protector of robbers, on their privy raids, which turn out most prospe ously on the 17th, 18th, and 19th nights of the month. But when a pig is stole he often is put off with a piece of the tail, offered with the words: "Here is a l of the pig; say nothing about it, good Hiro."

The tendency to multiply parallel conceptions makes the number of the go increase. Thus many members of the heavenly crowd suggest that they are t creations of the hieroglyphic languages of the priests, meeting as this does t needs of a foreboding spiritually-minded imagination. In this fashion legenda figures multiply; and are gradually impersonified as brothers and sisters, t they represent whole families.

It is difficult to separate the guardian spirits of individuals from those of t tribe; for both are treated alike, and are often essentially the same. The tote system comes in here. "One Samoan saw his god in the eel, another in the shar another in the turtle, another in the dog, another in the owl, another in the lizar and so on through every class of sea-fishes, birds, quadrupeds, and every kind living thing, including even several mollusks. A man would eat freely of wh was regarded as the incarnation of the god of another man, but the incarnati of his own god he would consider it death to injure or to eat; for the god w supposed to avenge the guilt by taking up his abode in that person's body, a causing to generate there the very thing which he had eaten, until it produc death."[1]

Beside the function of acting as the outward shell of guardian spirits, special duti were allotted, in the history of the gods and of their dealing with men, to animat objects. We hear much of the tree of life, by whose topmost branches the go left heaven when descending to earth. In Tonga, the *Toa*-tree grew up to heav for that purpose. The talking tree is found near the habitation of Ikuleo, the lo of heaven; and if he demands the death of a man, a canoe is sent to fetch hi This tree takes the souls; and when men grew as shoots from the world-tree, the received their souls from the height of heaven. Legend reduced the heaven

[1 Turner's *Samoa*.]

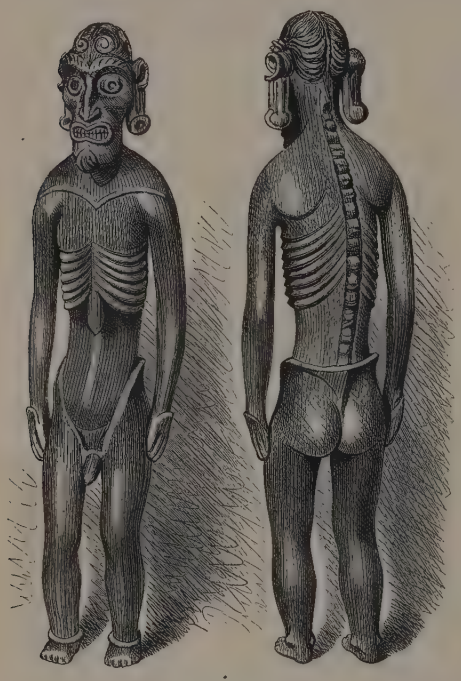
wth to a tree from which a man looked into heaven, as in Pelew; or, as in the nks Islands, made it grow till the divine being, Quat, climbed up it to escape pursuers. Souls of gods, too, are confined in trees. Thus Maui learned from uncle Inaporari, how to recognise in the lower world, by knocking on them, *noro*-trees in which lives of his brethren himself were imoned. Among the oris trees represent god Tane, whose dren are the birds land and sea. In niti, the *ao*-tree is nted near temples, ce the god lives in From the jagged nters of the *aito*-, Tangaroa, the self-otten, created the erior gods before he duced men. In lanesia, the Fijians erate trees by throwleaves on the spot ere the last evening dow lies. Besides *vesi*-tree, the wood which is good for oes, the fig-tree with spreading roots, and coco-palm which ks, are regarded as ts for the gods, and sacred. The good le soul-deities of the li sing from hollow es. Weapons are bed with certain ves to ensure suc-

Magic dolls made of human bone, votive bunches of hair, and tortoise skull, from a temple in the Admiralty Islands — one-fifth real size. (Christy Collection.)

s; but in Vate, leaves are buried near a house in order to cast a shade r it and cause illness. In the New Hebrides the pandanus receives special erence. At sacred dances the neophytes appear shrouded in bunches pandanus, and crowned with garlands of the same. In Micronesia, too, red trees are reverenced; for example, in Bygor, coco-palms standing in closures, because the *Ani* descend on to their tops. In Pelew, the *Kalit* o created the names of the chiefs, and dwelt originally within the earth, embodied in great forest trees. A bush that grows before the king's house Korror passes for the last scion of a plant brought from a submerged spirit

land; and at Tapituea in the Gilberts, New Year's sacrifices are offered un an old *Mamani*-tree.

Birds appear in the Mani-legend as bearers and guardians of fire; and a in a legend of the creation of man. Men were formed by the snipe or the la who was sent to earth by its father Tangaroa, during the process of scratchi up worms. A Samoan legend makes the souls of men in bird shape be brou down by the same birds. The seeds of useful plants are brought to ea by a bird from the gardens of the moon. The New Zealander regar the cockatoo as sacred; while it w a bad omen if the *tarata*-bird fl over a column of warriors on t march. The owl caused absol terror. Various other birds were a sacred in Polynesia as the bringers of and souls; and in Tahiti the heron a the *otatare*-bird. Red feathers symb ised the fire which the Creator places all living beings. One who knows F says: "If you would sketch an app priate emblem of the old Fijian religi you must select a fine pandanus, benea which is sleeping coiled up a migh snake, while hard by a cock with f feathers is crowing to wake the sleepe This bird, the harbinger of day, herald of sunlight, the bird of the su god, is the same for destroying wh the sons of Ndengeh aroused the wra of the fathers of the gods to such pitch that he sent a great deluge the earth. Great white shells adorn his legs, and so numerous were beautiful feathers, that by plucking o wing only you could cover the wh mountain-top as with a cloud. In the rest of Melanesia, next to the *wa* lizard, the *buceros*, hornbill or rhinoceros bird, is the most frequent subject sculpture. In the Hamburg Museum is a carving, in which he is taking a ch from its mother's body with his ripping beak.



Ancestral images from Easter Island—one-tenth real size. (Munich Museum.)

Among animals, the pig is the most distinguished in fable. Giants from Tah embarked in rafts to fight the man-eating pig in Eiva; or Hiro, born of the s slew it. Pigs were the most costly victims for sacrifice, and only the priests mig enter their styes. In Nukahiva a stone image of a pig's head was found company with human bones. Besides these, we find fabulous animals. T subject, at once oceanic and amphibious, of an animal living on the land a with a serpent or eel-shaped extremity reaching to the sea, occurs in Fiji a elsewhere in Melanesia, in the form of tailed gods, as in the souls of the chi lying in prayer before Siuleo.

Here, as in Australia, lizards are involved in a special cycle of legends, bringi

em into close connection with the divine figure which strikes its roots deeply, god of earthquake. In Fiji he lived in a cave, and when he was driven thence incantations the giant lizard which he kept in a cage as a plaything remained hind till it was killed by the chief Tara. With it the legend connected an thwork built in the form of a great lizard, on the river Waitio. On a campaign green lizard is counted a bad omen. The *Atuas* like to appear in the form of ards. Lizards creep through the openings of the body and bring illness; and among the Maoris the lizard god Mokotiti causes headache. Tare was also oken of as dwelling in a lizard. Among the Melanesians, snakes were, of all mals, the most revered, and some places in Fiji were actually famous for snake rship. On the other hand, the Hattams of New Guinea preferred the snake to other animals for food. Among the temple idols of the Papuas in Waigu, crocodile also is found. Idols, shark below and man above, were set up on uses in the Solomon Islands, to avert evil influences. Skulls of those valuable d animals, the turtles, were kept in the temples. From Easter Island we have n-headed idols, as shown on p. 50; and in Florida large eels are favourite ces of residence for the souls of the dead.

Lastly, we must refer to the widely-spread cult of stones. In Melanesia, rdly any sacred place is without its holy stone. The splintered and cloven ks of the coast gave rise to legends of all sorts, which in many cases sound e an echo of those which we know in the west. Rocky wastes are shown as battlefields of contending gods, or the places where, overtaken by daylight the task of creating islands, they were obliged to leave the materials lying out. Gods were made the constructors of the great stone figures on Easter and. Herewith, in islands where stone idols abound, legends were connected; in Tokelau, where the first man sprang from stone, and manufactured a woman t of sand, inserting a rib; or as in Tonga Levu, where a "dolmen" built by ngaroa indicates the direction in which the gods travelled to Vavau and apai. In the Gilberts, sacrifices are offered on one stone in a stone circle, this ng wreathed with the innermost leaf of a palm. Fishermen worship upright nes, and idols may be made only of a particular sort of rock. "Rain-stones" are t in the fire when it rains too much, but wetted in time of drought. Some saw stones the petrified remains of fish left behind by the great flood. Stone idols, apped with cloth, are venerated in Micronesia, many of them being brought m a distance. In a stone of this kind dwells Tuitokelau, who is revered as a d. In Mota, little stones are a remedy for evil of every kind. Circumcision y, in New Guinea, be performed only with freshly-manufactured stone knives; ough a bamboo splinter is allowed in cases of necessity. In the Pelews, bary found an idol of black volcanic rock. Small ancestor-images of stone re placed by the fishermen on their nets for luck. In Fiji, cliffs are the birth-ce of the good Ndengeh; in Pelew, the last remains of submerged spirit-nds, whence the giant forefathers of the present population, the *Kalits*, came o the land. Magic treasures often lie under them; or, as below a reef in rror, the *kossol*-root, which, laid on the prow of a canoe, of itself guides the yage to its end.

Reverence is also paid to the sea; everything connected with it—as naviga-n or shipbuilding—is highly esteemed. In Nukuor the priest strikes eight ws with a consecrated axe on the tree from which a canoe is to be built, and

it may not be felled or worked except in the three months elapsing after t death of the spiritual chief of the tribe. The people of Ponapé hold a pecul feast at which all boats built in the previous year are dedicated to the go The paddle that marks a grave represents the noblest activity of the man, as t spindle that of the woman; and not corpses only, but persons dangerously ill decrepit from age, are exposed in boats. In Mortlock the highest honour is pa to the god of the sea, by the conveyance to him of those who have fallen battle, while those who have died naturally are buried in the ground.

Under the breath of the universal tendency to animism which penetrat through mankind and Nature, gods and idols sprang up in crowds, and bore t Oceanian mind into a labyrinth of supra-terrestrial and sub-terrestrial conceptio A racial feature appears in this luxuriant formative impulse. It is not by char that Polynesia and Madagascar have a great extent of theogony in common, the form of an extremely polytheistic mythology in one region, of exubera fetishism in the other. And even if but a small fraction of these spirits soared the heights of divine honours, while the great mass remained attached to the so yet the total was large. The list made by the missionaries in Raiatea contai nearly a hundred names of gods. Whether certain ones rose out of the ma depended on how the tribe lived. In a more distinct order, among the world gods, we see a reflection of the stability of tradition. Thus in general more go are found in the east among the Polynesians, more spirits and ghosts among t Melanesians and Micronesians to the west. Just when Christianity reach Polynesia, they were in the thick of a brisk process of god-manufacture; n shoots, new blooms, sent forth by their excited fancy, found a more secure footin partly in the more firmly crystallised cosmogonic legends, partly in a system hierarchies and relationships, which naïvely spiritualised conditions prevailing earth. Where the tendency to discuss genealogical traditions on fine evenin in places of public resort prevailed, as in New Zealand, time brought abo organised methods of recording (see woodcut on p. 303). In such cases theolo gains a firmer consistency than in districts where life is lax, and traditio and the priesthood have no organs.

The highest gods were bound together by a common origin from Chaos *Po*, anterior to all existence; these were called the offspring of Night. Th demigods and heroes, as well as even men of high birth, made their way in the circle, with the result of obscuring Polynesian mythology. These late-promot were often just the most considered in the realm of gods, even though they mig be locally limited. On the other hand, to one only belongs, in the highest measu a profounder connection with cosmogony; this is Tangaroa, who is revered ev in remoter islands, as Taaroa and Kanaloa. A Raiatean legend gives a gra picture of his all-pervading power; how at first, concealed in an egg-shaped she he hovered around in the dark space of air, until weary of the monotonous mov ment, he stretched forth his hands and rose upright, and all became light arou him. He looked down to the sand on the sea-shore, and said: "Come up hithe The sand replied: "I cannot fly to thee in the sky." Then he said to the rock "Come up hither to me." They answered: "We are rooted in the ground, a cannot leap on high to thee." So the god came down to them, flung off shell, and added it to the mass of the earth, which became greater there From the sherds of the shell were made the islands. Then he formed men

his back, and turned himself into a boat. As he rowed in the storm, space
s filled with his blood, which gave its colour to the sea, and, spreading from the
a to the air, made the morning and evening glows. At last his skeleton, as it
on the ground with the backbone uppermost, became an abode for all gods,
d at the same time the model for the temple; and Tangaroa became the sky.

In other traditions he appears as the Polynesian Neptune; and he was also
orshipped as the guardian of those who went to sea in dug-out canoes.
stly, as the giver of the model for the temple, he was the patron of artists.
is indeed obvious enough for a maritime people to make the god of the sea
e father and the first of the gods. While it is under his supreme sway that
eation develops from plants through reptiles to men, these last were finished
the god Naio, and brought nearer to the gods themselves. This Naio, who
anges the revolution of the sun and the fixity of the earth, leads ultimately
the Maui of New Zealand. By this addition of subsidiary or assistant gods,
ngaroa's position as time went on got obliterated. He was called the Un-
eated, the Survivor from the age of Night, and hymned as follows:—

Taaroa like the seed-ground,	Taaroa, widest spreading,	Taaroa all around us,
Taaroa, rocks' foundation,	Taaroa, light forth-breaking,	Taaroa down beneath us,
Taaroa, like the sea-sand,	Taaroa rules within us,	Taaroa, lord of wisdom.

he places where he was publicly worshipped were but few. With his wife, by
om he had a son and a daughter, who in their turn had two sons, he is the
st to emerge from Chaos; and embracing the rocky soil he begat land and
a. But when the forerunners of the day—the dark-blue and light-blue sky—
me to him, begging a soul for the earth, he bade his son Raitubu to carry out
s will. He, by merely looking at heaven and earth, produced all that is in
rth, sky, and sea.

In Tangaroa's gigantic creative force, which allows good and evil to proceed
om it indiscriminately, the root of his transformation to an evil principle may
eady be seen. In Tonga he eclipses the sun, and meets us in Hawaii as the
il spirit among the four chief deities. In Fiji, *tagaloa* means the odour of a
rpse.

In connection with Tangaroa another divine figure represents the man-forming
le of his creation; many traditions record Tii as the father of the human race,
th his wife as the mother of mankind. Sprung from the alliance of a descendant
Tangaroa's with the sand of the shore, he himself formed his own wife, and
eir children were the patriarchs of the human race. In Opoa, two Tiis—one of
e land, one of the sea—are said to have taken human bodies, and to have peopled
e islands, hitherto inhabited by gods only. But some held that Tii and Tangaroa
ere one and the same being, like the sun by day and by night. Some again
serted of each alike that he was the first man who, living on after his death,
as called by the name; whence also the spirits of the departed had received
is appellation. This legend looks like an extension of the notion, which is
read all over Polynesia, of Tangaroa the creator; he and his wife were made
have inhabited and peopled all the islands in succession. Tii is in more ways
benefactor of the human race, by raising the heaven above the earth, by
utilating the earthquake god, by bringing fire, and creating man. Thereby he
closely linked with Maui; and consistently with this we meet him in the
ociety Isles as god of light, sprung from the sun and moon.

Thus did mythology develop from cosmogony, and here too it owes i existence mainly to a dim impulse towards knowledge. The impulse towar an arrangement of the conceptions of the next world has contributed somethin to it. Lords of heaven and hell were needed. Thus the eternal mirror anthropomorphic impulse casts upon the deep shining sky, and upon th wide horizon of its island home, magnified and distorte human figures as bearers of the creative and destructiv forces of nature. And they who there act and suff gigantically are genuine Polynesians all the while. Effor after dominion and power, jealous claims to honour an possession, inexorable vengeance for neglect, are commo to all; not one is adorned with moral pre-eminenc surpassing wisdom, or spontaneous goodness; crimes every sort find example and encouragement in the spiri world. Thus even the highest beings are drawn down t earth by the polytheism which makes them in the likenes of men. Only in the beginnings of creation is the impuls to express in an image some inkling of the origin and inte dependence of beings preserved. Creation begins in pr found metaphysical depths. Here mythology goes near t bring forth science. Poetry and legend struggle to explai the riddle of the world, but in vain. Yet it is a brilliar testimony to the intellectual ability of the Polynesians. their development in other domains had kept pace with i they would have been a race of high distinction; but a bottom the limitations of a life confined to the island recur everywhere within their wide sea-horizon. The ver beginning of cosmogony followed the course of natura development: the central point of the world came int existence by land being cast up from the primeval botton and later-discovered islands were fished up by heroe Moreover, the whole is permeated by the view that th primitive forces of Nature, from which, personified as god the world of phenomena has come forth, are always strivin in pursuance of a process of development which is originall included in them, to swallow it up again.

Idol from New Zealand —one-half real size. (Christy Collection.)

Although the existence of the gods had a beginnin it knows no end: so they hold in Tonga. Earth, heaver all things, are of themselves divine; and therefore *Po* the Night, is placed at the beginning. *Po* was in labou for ten nights, and on the tenth appeared Kaka, father of Rangi and Papa, fro whom sprang Tane, with his eight brothers. The nights had special names, t which the priests gave a profound interpretation. Similarly, among the Maori creation commences with the night. After untold periods desire awakes, the longing, then feeling. Thought follows upon the first pulse of life, or the firs breath drawn; and upon thought, mental activity. Then springs up the wis directed to the sacred mystery or great riddle of life. Later, from the materia procreative power of love is developed the clinging to existence, permeated by

ous sense of pleasure. Lastly, *Atea*, the universe, floats in space, divided by difference of sex into Rangi and Papa, Heaven and Earth; and individual ations now begin. Bastian asks in reference to this towering structure of ought: "Did some disguised Anaximander or Pythagoras wander this way?" every phrase, as we may say, are found resemblances with Asiatic or American smogonies. There is no need to refer to the Egyptian Ru and Buto, sun and ght; every cosmogonic idea of the Oceanians has relatives east and west of the ean.

Papa, the Earth, and Rangi, the sky, lay in close contact with each other. om the attempts of poetry to explain their separation, and the consequent ulting of heaven, sprang the whole legend of the gods, taking one form in hiti, another in Tonga, yet another in Samoa. A more localised variation ngs us from Ru-Rongo, the god of heaven, to Tangaroa. Kaka, brother to pa, the earth, represents the sky, or the light, in contrast to her. In Hawaii appears as Wakea, and Papa's husband, who, in conjunction with her gives th to many generations of gods, notably the series of the *Mauis*. Diving into depths of the sea, he united himself with the sea-goddess; and after he had urned to land, the *Moa*-birds begotten of this union lighted on his shoulders.

Metaphysical interpretations of what preceded the creation of earth are only nceivable among Polynesians of a large community, where a regular priestly der rendered a strict tradition possible as in Hawaii, the Society Islands, or ew Zealand. Where the lore was handed on only by the mixed society of the cret leagues, the history of creation remains wholly in the region of fable or gend. No doubt the outlines show faintly through, and some names recur; but details the conception has changed. It is with an interest born of old quaintance that we find carpenters and artists in Mortlock worshipping the nith under the name Lageilang as their most special patron-god; by his nature must be Rangi. Still more familiar, as we go east, is the notion of the sky found in the Gilberts, according to which it was a spherical shell lying close the earth, which a hero helped the gods to push higher. His sister, in the m of a cuttle-fish, supported him. Brother and sister appear otherwise, in the ocess of creation, as representing the male and female principles—as in the ariannes, the Carolines, Pelews, and elsewhere.

The character of the Melanesian variations on Polynesian legends of the gods that of a jocose, almost anecdotic lowering of them to humbler spheres. What myth in Polynesia here becomes fairy-tale, losing thereby in grandeur, but ining in human affability. The primitive inhabitants of the islands, who rrespond to the Kalits of Micronesia, are no giants, but helpful gnomes; and eir chief, Marawa, still shows treasures hidden in clefts of the rocks to poor ople who confide in him. Sportive turns are in accordance with the cheerful ture of these curly-haired folk. In the New Hebrides they say of the creator, at he first made men go on all fours, and pigs upright. But this annoyed the rds and reptiles, and they called a meeting, at which the lizard was foremost in manding a change, while the wagtail strongly opposed. The lizard forced his y through, crawled up a coco-palm, and jumped down on the back of a pig, aking it drop on to its fore-legs. Since then pigs go on all fours, men upright. ut the value of these traditions is quite misunderstood, if, as for obvious reasons e missionaries are apt to do, we see in these spirits, who at bottom are

cosmogonic figures, only the heroes of fairy tales. The Polynesian legend of t fishing up of the land from the depths of the sea takes the following form in Ya Mathikethik went out fishing with his two elder brothers. First, he hooked u crops of all sorts, and *taro ;* then the island of Fais. His hook is kept by t priests ; and since, if it were destroyed, Fais also would disappear, the inhabitan

Tahitian idols, carved in wood—one-tenth real size. (London Missionary Society's Collection.)

of that island are in constant subjection to the menaces of the Yap chiefs. Thu can a great piece of cosmogonic imagery sink to the level of trick and superstitio

The connection of creative activity with sun and moon, still so clear i Polynesia, has become in Micronesia quite legendary. In Pelew they relate ho a man and his wife, tired of staying in that island, went to the stone in Eymelij whence they sprung, and called on the moon. It approached, and they climbe on to a serpent's neck, and so reached the moon, where they may now be see Other sun and moon notions take a similarly odd form. When the moon wane sorcerers are eating it in dough. The sun shines at night in another countr Once upon a time four men in Pelew, seeing the sun setting, leaped hastily int

canoe. They went on till they got to the *denges*-tree, and the sun asked what ney wanted. The people said, to visit him ; and he told them to let their canoe rift, and plunge down after him. The islanders did so, and found themselves n a strange country, in a well-built house, where the sun entertained them. The iands served in the dishes were tiny in size, but got no smaller with eating. At ength the people prepared to depart ; but as their canoe had floated away, the un took a thick bamboo-cane, an article hitherto unknown in Pelew, and shut nem in it. He bade the bamboo float to Ngarginkl ; the men arrived there afely, and became the four highest chiefs. But the bamboo floated away to Ngareko-basango, where there are thickets of bamboo to this day, but none on eleliu. In remembrance of their deed, however, the people of Ngarginkl are llowed to fetch bamboos from thence.

The birth of the creator from stone or from the earth is the starting-point of ijian and New Hebridean cosmogony. Ndengeh's priests point out a rock, hich rises from a river at the foot of the hill which he inhabits, and say it is his ather. The interpretation is to be found in the connection between father leaven and mother Earth. Thus among the Banks Islanders the supreme god, Qat, emerges from a stone, which was his mother ; and then with the help of his ompanion, Marawa, creates the rest of the world. Marawa is invoked with Qat n all emergencies, and may easily be recognised as the legendary Maui of New ealand and Hawaii. Qat was doomed to be slain, but succeeded in climbing a utmeg-tree. He had hardly reached the top when, by the arts of his hostile rothers, the tree grew higher and higher, and became of such circumference that Qat could not have got down again, had not Marawa, seeing his friend's difficulty, lown to earth a thread, or a hair from his head. Here we have the sun ; and ne tree of heaven is the same as that by way of whose top, in another story, ne whole group of Tongaros saved themselves from a hostile spirit.[1]

Islands where volcanic eruptions and earthquakes are common must be just ne places for myths to weave themselves in abundance about the force of the idden fire. To this a life-generating effect was ascribed in the Marquesas ; and orresponding veneration was paid to Maui as creator of the world. After Nukahiva was raised up from the nether world by divine force, a woman gave irth to the sea as well as to the germs of beasts and plants ; while men and sh, who were enclosed in caverns, were ejected by a volcanic explosion. The usion of fire below and above the earth into a single god of earthquake, fire, and un, is not far off, when the theogonic position is so lofty ; the ever-varying and nobile nature of fire, of heat, opens an immeasurable field to fancy. Maui, the Hawaiian Prometheus, who fetches fire from the sun, is in Samoa the earthquake-od as well ; in Raiatea, the creator of the sun ; in the Marquesas, of everything hat has life. So, too, a reason for his lofty position is offered by the separation hich the Maoris make between Ru, their god of earthquakes, and volcanic fire, nd the fire-god, Manika, who dwells in all living things. Here Maui is the re-bringer and the animator. Around him is spun a network of legends of Promethean and Titanic character. The word *maui* means "broken," "beaten" ; hen Maui fetched the fire, one of his arms was struck or twisted off by the arthquake-god, Tati. This occurs in the most various versions. His brothers, nultiplied Mauis, appeared in a twofold form, as demigods and inhabitants of

[1] [The Tongaros are Qat's brothers. Marawa is occasionally a spider.]

earth. But the fire-bringing was Maui's performance, of which legend specially loved to treat. After he had obtained the fire by means of red-feathered birds he completed his Promethean career by overcoming his father Kane, whom evil spirits had set at enmity with him, and Kane's brother, Kanaloa, in a riddle-guessing contest, attacking them, and vanquishing a whole host of spirits besides. Kane and Kanaloa fled from the temple and went aloft; but Maui, as he was about to follow, suddenly felt himself struck in the breast by a missile. Thereupon he lost all his supernatural power, and soon after died of sickness like a mortal man. What a sheaf of universally current thoughts and images have we here! In the Society Islands Maui is brought otherwise into connection with the sun. He is there made to be the priest, who, wishing to finish divine service, caught the hurrying sun by its rays. In Hawaii, when the sun had taken refuge in Tahiti, he brought it back, and cut off one of its legs to make it move slower and dry his mother's washing. Lastly, we even find him as a god akin to Proserpine, for whose return from the underworld prayers were offered every year at the harvest-festival in Nukahiva.

Fire was everywhere brought to earth against the wish of the gods. In Ulea a god who has been pushed out of heaven obtains it by threats from an old woman, Mafuike, and brings it to Fakaafo, where till then the food had been eaten raw. Since then fire, as being sacred to the god of day, may only be lighted at night for fishing purposes or at confinements. In Tokelau and Pelew the legends commemorate the making of fire by rubbing two pieces of wood.

To this series of great Polynesian gods belongs Tane or Kane, who stands in the closest relationship with Rongo, Rangi, or Ru, the heaven, or bearer of heaven. After earth and heaven were sundered, Tane adorned the heaven with stars, and set up the deformed among his children on earth as trees. He appears thus as assistant and finisher in the work of creation. Another legend represents him as the maker of the first man, or of the beings who preceded. A yet more essential function in the Maori legend is that in fulfilment of which he discharges the important duty of separating his parents, Rangi (heaven) and Papa (earth), and raising the former aloft. When after this he went up to heaven to seek a wife, he found that there was only one woman there, and his father Rangi advised him to go back to his mother. From her hip he formed his wife Hine, on whom he begat a daughter. Recognising her father in Tane, this daughter fled, ashamed, to his brother, and in her anger with Tane transformed herself into the Titaness Hineanitepo (night), while Tane remained on earth. While Tane was searching everywhere for his daughter, he found his brother Rehua, the all-quickening fire, in the tenth or highest heaven. This visit to the fire seems to connect Tane with the Promethean Titan Maui, especially as he also sought the water of life as a protection against Maru, and is reckoned the father of birds; two features which he has in common also with Tangaroa. In Tahiti, Rehua was a real star-god, the star of the New Year, who produced the Twins as well as the Pleiads, and is considered lord of the year. The morning star, the guide of shipmen, is the son of Heaven, while the evening star was designated as the son of the Sun, falling stars as Atuas, and the Twins as sons of men, who in their fear of being separated made their escape to heaven.

Closely bound up with their tangled structure of mythologic notions, yet forming a world of themselves, are the Polynesian conceptions of a hereafter; a

mewhat ennobled reflection of the life on earth, and yet much nearer to the esent world than to that of the gods. It is only the lord of the underworld ho comes into the same line of reverence with them. He is Ikuleo, or Hikuleo, aui's younger brother, lord of Bolotu, the nobles' heaven, and god and guide of eir souls. Near his palace bubbles up the fountain of the water of life, which vakes the souls of departed princes to renewed youth, quickens the dead, heals e sick. Or he dwells in a cave on Bolotu, unable to go further from it than the ngth of his own tail, which has grown into the ground. Here he carouses with s wives and children, compelling the souls of chiefs and *Matabulus* to wait on m. A thirst after souls is one of his chief characteristics, but an emigration d by Tangaroa's sons carried off some of his subjects, and he endeavoured cordingly, by summoning the ghosts of chiefs, to attract them back from Tonga. e had a special fancy for the first-born of the noblest families; and once such mortality took place among these that Hikuleo had to be chained up in the rth by Maui, and in heaven by Tangaroa. He appears in Samoa, as Siuleo, the head of the fighting men, whom he leads to victory if he is disposed to cept their sacrifices favourably. In Hawaii we know him as Milu and Wakea, o aspects of the same ideal. From the legends told here of him and his tendant shades we may form a sort of mosaic picture of the Polynesian Hades d Paradise. Milu's kingdom in the lower world will last for ever, and has isted from the beginning; but persons apparently dead have brought back telligence of it, as the Hawaiian legend related on p. 41. It is level and fertile, so fairly light; everything grows of itself there. In Milu's palace court are cilities for enjoyment of every kind. The best-looking women who arrive are lected by Milu for himself, and are then tabooed to the other Akuas. Another ler of the underworld is Wakea; his kingdom was founded later than Milu's. ach kingdom is tabooed, and no one can go from one to the other. Before Wakea came a god, he was a sovereign on earth; Milu was also a man, but not so od. Down below Wakea rules over the higher souls, Milu over the lower. eparted souls are borne away in the direction of the setting sun, to Kane's ands. There they either leap from a rock into the sea, or disappear through hole in the ground. A place in Oahu, near the West Cape, has been said to the spot; probably with a reminiscence of the similarly situated sacred spot Pelew. But the souls do not come at once into the next world; they wander me time on the frontier, and if they are only apparently dead can return to e upper world. For this reason the recently departed soul is an object of fear, nce its semi-corporeal apparition is enough to frighten one into madness. In ilu's kingdom the souls amuse themselves with noisy games; in Wakea's a lemn peace reigns. The place where the wicked are tormented, which is presented as the night of the everlasting death, and as a dark deep place at e back of the heaven where the stars are hung, may well have been imported om some foreign school of thought.

In Hawaii, legends of a fire-goddess, Pele, belonging to the nether world, ere called forth by the mighty scale of the volcanic phenomena, and grew into cycle of myths in harmony with the Hades-legends. Superficial observers, garding her as the most powerful of all the gods, ascribed to her not only the lcanic fire, but also the Hawaiian deluge. When Pele started upon her journey Hawaii, which in those days was a monstrous desert waste, with the same

mountains as now, but with no fresh water, even no sea, her parents gave he the sea to carry her boat. While she was sailing to Hawaii, the flood rose ti only the highest mountain-tops were visible ; but the sea shortly went down agai till it reached its present level. Pele, with her terrible brethren, the lord c steam, the lightning, the thunderer, the fire-spitter, the boat-smasher with fier eyes, the sky-splitter (a sister), and the rest, retired to the mountains. In th roar of the lava-waves the Kanaka hears their voices. Pele often changed he quarters ; driven out by the sea-god Moana, she now dwells in Kilauea, the onl volcano of the group that is at present active. Even after the conversion of th islanders to Christianity the crater of Kilauea long remained under strict tabo Even in the most recent times strangers have noticed their native guides, wit bared heads, throwing into the lake of fire little offerings like glass beads, cora shells, etc., with the salutation *Aloha Pele !* while the hair-like threads of glas "Pele's hair," which are found only in the crater of Kilauea, may serve as memento of the once mighty goddess.

The fancy of the Melanesians did not soar to such grand achievements in th decoration of their Elysian fields ; but it furnished the road thither with man and various obstacles. The Fijian name Mbulu points to the Tongan Bolotu and even the Hawaiian ball-game is reproduced in New Caledonia as a gam played with oranges by the souls at the bottom of the sea. The first thing o the road to Hades is a city through all the houses of which the souls roam, fo which reason the doors all open the same way. Then they have to pass in fron of a giant, who tries to get them all with his great stone axe. Those who ar wounded have to haunt the mountains as ghosts for ever ; those who escape th giant, after being acquitted by Ndengei, get permission to enjoy the odour of th human sacrifices. Souls of unmarried men come off worst. Nangga-Nangga lie in wait for them, and as soon as he has caught them, heaves them up in bot hands and throws them down upon a rock, where they are broken in two. Fo this cause it was usual among the tribes in Fiji to strangle widows, because th god regards male ghosts, who come without women, as bachelors. If the wif is the first to die, the husband cuts off his beard, and lays it under the left armp of the corpse as proof of his existence. The fighter who guards the entrance t the next world is met with elsewhere in Melanesia. In the Hades of the Vat Islanders Salatau tries to hit those who enter on the head with a club. N doubt it is the same spirit who in Fiji, under the name of Samujal or Suma, an Ravujalo, lies in wait for souls to eat them with his brothers. The souls c common people succumb, those of nobles get to Mbulu. These go to the uppe part of a mountain, and find at the top of a precipice a father and a son with paddle in their hands. If they question them, they are thrown over, and have to reac the next world by swimming. Why the paddle, if the souls have to swim after all The meaning of the ferryman of souls has been forgotten ; though it is not s in Fiji, where the souls' places of embarkation lie to the north-west, and wher it is believed that the rustle of the west wind can be heard all the way fro Galongalo, the place of the swimming. After the death of their king the thre eldest men of the tribe go with cloths in their hands to the bank of the river t escort the soul. There they call aloud for the ferryman, and wait till they se an extra large wave roll in upon the shore, the token of the invisible cano Immediately they turn away their faces, and cry : "Go on board, lord." The

ey hasten thence with all speed, for no living eye may look on the embarkation. he corpse is buried in the usual way.

Souls which are excluded from the next world, either perish or come back wander restlessly about the earth, like those who were wounded in the fight entioned above. The same fate awaits those who cannot hit the tree of akivelajawa with the whale-tooth that is buried with them for the purpose, and cording to Fijian legend, untattooed women also, and avaricious people. This ngerous way of souls is moreover divided into stations, at each of which the ul dies once again. In the belief of the Solomon Islanders, the avaricious, murerers, and other sinners undergo a purification by being turned into ugly repes, snakes, toads, and the like. Similar traces of dim notions about future wards and punishments are to be found everywhere. But it was certainly no iginal conception of the Fijians that souls have to come before Ndengei's dgment seat.

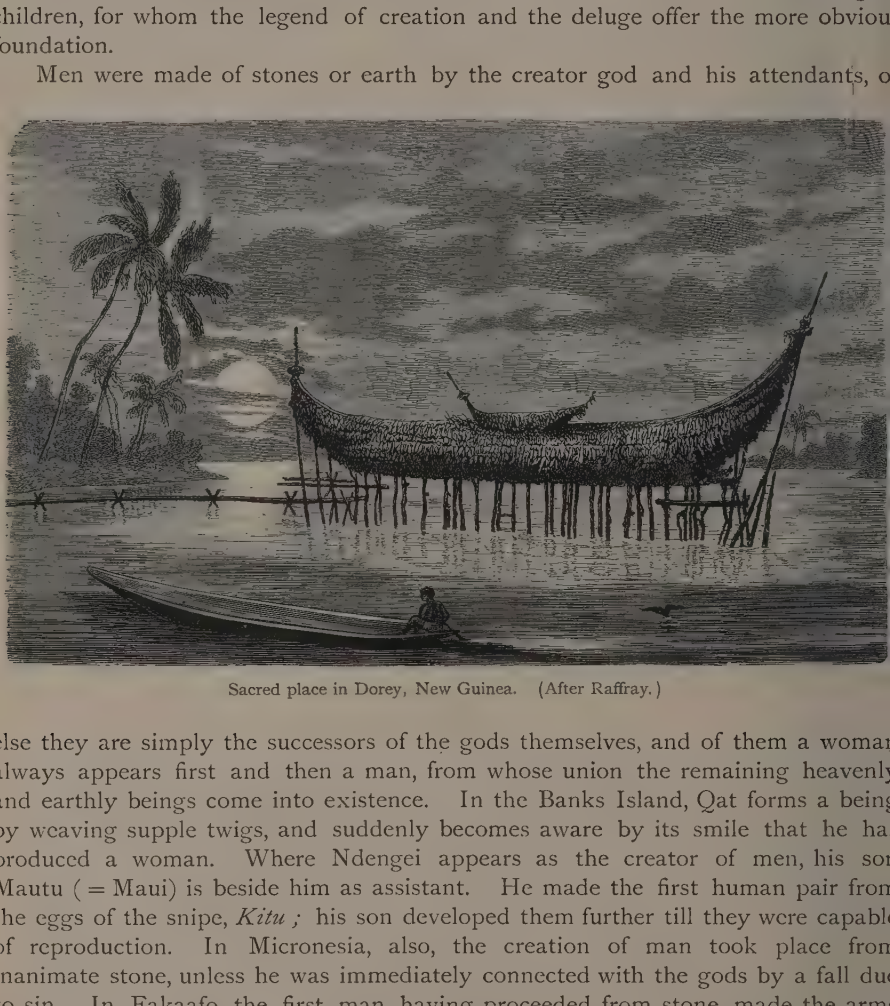
Usually souls go with the sun into the ocean, to reach the next world at his sing on the following day. This is why the promontories whence they venture eir leap into the darkness, lie on the west of the islands.

Where two souls were distinguished in every man and every object, as was e case among the Fijians, namely the shadow and the reflection, it is the dark ne only that goes to the lower world, while that which is compared to a reflecon remains about the grave; in this way the return of the dead in dreams is xplained. Another conception sets a limit to the soul even in the next world, nce it makes annihilation follow upon the highest stage of the life in Mbulu. ut this annihilation is personified, and in another tradition assumes the character the chief of the souls in Mbulu, who is thus probably conceived as a soul-eating od. Others, however, make the souls remain in their place until the earth has een destroyed by fire and renewed.

The Melanesian doctrine of ghosts and gods is in its main features very like e Polynesian. It is not too much to say that the foundation of Melanesian ythology is woven of Polynesian threads; only peculiar features are woven in, nd often rest upon a weakening-down of threads and colours already in existence. onsidering the great variety of gods in the oceanic regions, little importance an be assigned to the pre-eminence of any one. Name and dignity of the upreme god change from one island to another. It is only in the tales of the eation and of the nether world that more stability is to be observed. In Fiji e recognised chief of all gods and men is Dengeh, Tengei, or Ndengei. He is id to have at first moved about freely, but then in the form of a snake to have rown into the earth with his ringed tail. In that he resembles the Tongan lord the place of spirits and Dianua the lord of spirits in New Caledonia. Since en he has become the god of earthquakes, storms, and the seasons. They say at whenever Ndengei shakes himself fertilising rain will fall, delicious fruits hang n the trees, and the yam fields yield an excellent crop. But Ndengei is also a od of wrath who declares himself in terrible fashion. He punishes and chastens s people, now by destroying the crops, now by floods; he could indeed easily ipe out mankind from the earth, for since he has lived in the bowels of the earth e has been tormented with so insatiable hunger that he would like to take and swallow the whole world. The gods in Fiji fall into different classes cording to the degree of their relationship to Ndengei. As in Polynesia, people

speak of the divine family—father, son, and daughter. Mautu-Maui, Ndengei' assistant in creation, is called the "bread fruit" and "the son of the supreme god. Ndengei has several sons besides who receive prayers on his account; his grand children are territorial gods, his distant relations subordinate tribal gods. Among them are symbolisations of properties or endowments, reminding one in thei crude luxuriance of India; mechanical dexterity with eight arms, wisdom with eight eyes, Waluwakatini with eighty stomachs. The two ferrymen o souls also, and Rokomutu, born from his elbow, are mentioned as Ndengei' children, for whom the legend of creation and the deluge offer the more obviou foundation.

Men were made of stones or earth by the creator god and his attendants, o



Sacred place in Dorey, New Guinea. (After Raffray.)

else they are simply the successors of the gods themselves, and of them a woma always appears first and then a man, from whose union the remaining heavenly and earthly beings come into existence. In the Banks Island, Qat forms a being by weaving supple twigs, and suddenly becomes aware by its smile that he ha produced a woman. Where Ndengei appears as the creator of men, his so Mautu (= Maui) is beside him as assistant. He made the first human pair from the eggs of the snipe, *Kitu;* his son developed them further till they were capable of reproduction. In Micronesia, also, the creation of man took place from inanimate stone, unless he was immediately connected with the gods by a fall du to sin. In Fakaafo, the first man, having proceeded from stone, made the arms and legs of his consort, Ivi, from clay, and enclosed one of his own ribs in he body, and from them all other men sprang. In Pelew the divine couple, Irakaderngo and Ejluajngadassakor, created mankind, he producing the men, she the women The modest creatrix hesitated to show her work, while the creator let his be seen freely. Since then all women wear a skirt of pandanus leaves, while the men g

naked. The want of mental harmony prevailing between the two sexes is also referred back to this early time, for as the creating couple kept laying their creations pair by pair together on one side, it befell that many did not suit each other and disagreed. The first created beings were moreover pure *Kalits*, giants in body and strength, and rich in capacities which are lacking to the men of to-day. The inhabitants of Ascension consider that the stone monuments of their islands were built by these.

From among the gods of the second rank the god of war most frequently takes his place beside the highest and the oldest, although the character of a hero is clearly stamped upon him. His variations, also, are remarkable; in Samoa, Meru appears as the god of thunder and lightning, and passes into the war god Meso, or Moso, who again reminds us of the Tahitian Oro. Although in later times he was worshipped in the place of Maui as the finisher of creation, he is nevertheless human in his origin. In New Zealand Maru sends the rain and earthquakes also, he is recognised in the red planet Mars, and worshipped in the South Island as god of war to whom the slain are offered as sacrifices. Next to him the gods of the field and the harvest had the chief practical importance. Some of their attributes could be transferred to Tangaroa, Tu, or Tane, and worshipped with and in these. There were propitious and mischievous gods; in Tonga one was worshipped at the time of planting and the time of harvest, another was prayed to at the irrigation of the fields. But the goddess of the wind overthrew the plantations if she was not duly honoured. In New Zealand the image of Tiki, the first man, was venerated at the time of harvest.

In conclusion, let us draw attention to one of the host of heroes. A mighty figure meets us in Tawahaki, patriarch of the Maoris, whose acts were so illustrious that a daughter of heaven was willing to be his wife. After the birth of a child she fled back to heaven, and Tawahaki climbed up after her by a cobweb. But his brothers-in-law wounded him, and in revenge he called forth a flood; or, as one tradition has it, stamping in his anger, he broke the crystal covering of heaven, and the flood burst out. In the other legend, the hero, having been healed of his wounds by his wife Hirepiripiri, prayed that the flood might descend and annihilate his foes. Since that time Tawahaki has been propitiated at funerals as the conductor who brings the souls of dead chiefs from earth to heaven. We meet with earth-stampers also in Tonga. Huanaki and Fao swam from Tonga to Niue, stamped on the island to make it rise higher, and by a second stamp called forth the plants from which the first human pair sprang.

The condescension of female dwellers in heaven to earth-born heroes recurs in another form in many Polynesian legends. The daughters of Langi, the lord of heaven, feeling lonely in their empty house, made ready to set off and satisfy their curiosity by a nearer look at the folks below on the earth. Just then the sons of the prince were gathered at a festive *kava*-drinking when the goddesses drew near, and soon by the charm of their beauty kindled a bloody quarrel. The fearful uproar was heard in Bolotu, terrifying the gods in their assembly-hall; and Langi hastened with all speed to punish the disturbers of the peace. But the eldest daughter had already, in the wild hurly-burly, been torn to pieces by the infuriated rivals, and the enraged father himself struck off the head of the youngest. This was hurled into the sea and became a tortoise; an animal which, since that, chiefs are forbidden to eat.

The legend of the Fall, by which men, once godlike, became mortal, recurs i varying forms all over the world. Formerly an old man merely stripped off his ol skin and appeared again in a new and rejuvenated form; but in the Solomon an Banks Islands all men became mortal in the following manner. An old woma threw her skin, in the usual way, into the water, but it caught and hung in a pro jecting bush. With her youth renewed the mother returned home. But as he children declined to recognise her, the old skin had to be looked for, whether o no, and put on again. Since then every one has died. In Lifu, death came int the world with the islanders' best fruit, the yam. The sons of the first man had bec turned into animals, and one of them, the rat, brought up to the surface, throug a hole, a yam-root from the plantations of an old gentleman residing at the centr of the earth. This was planted, and then men began to die, their lives bein required in compensation for the stolen provisions. We are reminded also of th Fall, when the god Nobu, having created men, deserts Erromango for ever. I Vate they relate how the inhabitants, during the absence of Nugerain, one da burnt his great store of pearl-shells, and were condemned to die as the penalty.

To the fall of man corresponds a period of general decadence and degrada tion among the gods, in which the transformation of the chief god into bestia shape plays so important a part that one may see therein a justification of th apparently senseless worship of beasts. In Fiji they relate how Ndengei, lookin once upon a time into a clear brook, was astonished to see how ugly he was. Fo this cause he assumed the form of a serpent. "If," said he, "I remain an ugl man, I shall be despised; but if I am a serpent, every one will fear and obey me. The preference shown for a beast-idol probably is due to a later growth, of th nature of a throwing-back. The purer and higher worship of a lord fell to tha of a reptile; fear took the place of heroic courage and wisdom. So too the demi gods are evidence of a corrupter age, which became dissatisfied with the old god and sought others. In Fiji a chief betook himself one day to the mountains, an cried: "Who will be my god?" No voice replied, and he went down to the se and repeated his cry. Then a serpent answered "I will be thy god." The chie was ready to recognise the serpent, and became its priest. But even in the serpen form the worship was not permanent, for when Ndengei, with the end of hi serpent-body petrified into the foundations of the earth, had lain down to sleep i the cavern of Raki-Raki, he was only visited by his old servant Uto; and as th worshippers grew more and more lukewarm, he generally came with empty hand

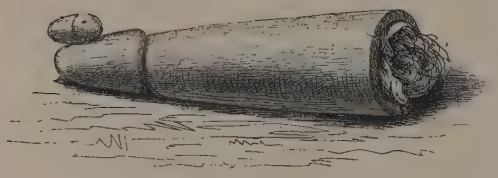
A Deluge-legend recurs in many places, but unconnected so far as appear with other mythologic conceptions of the same kind. Sometimes the suprem deity originates the flood, sometimes heroes open the way for it. The Ndengei o Fiji is also the Melanesian Neptune; and his relations to Tangaroa and Mau the sovereigns of the sea and producers of floods, agree with this. Whe Ndengei, in those days a great chief, was dwelling on the seashore, a war wit Tangaroa arose. Then he let the sea in from the north over all the low country an drowned the invader, while he himself took refuge in the mountains. On anothe occasion he flooded the whole country, because his twin sons had killed hi favourite bird, a cock with beautiful feathers. He lastly banished the twins t the Reva district, where they became the patron gods of such as build canoes and for this reason ship carpenters hold an almost sacred position, as in Tonga In the Pelews the Deluge-legend is told as follows. The old woman calle

lath, who brought forth the four great lands, lived, at an advanced age, in the ıntry of Ngareksbukt in Ejrraj. Once on a time the people there had killed e of the seven Kalits, and his friends in their course through Pelew came to lath's house. She invited them in in friendly fashion, and asked what they nted. The searchers explained that they were the friends of the missing man. e old woman gave them food, but also imparted the sad news that he had been in by the people of her country. Then the friends in their wrath decided to troy the whole land, with the exception of Milath, and advised her accordingly make herself a raft of bamboo. This she was to keep in readiness attached by a g cable of lianas to an anchor in front of her house, and shortly before the full on put much victuals on board and sleep there, for a great flood was coming. e old woman did as she was advised, and then the water flooded all the dry d; only the raft with old Milath remained afloat. But presently the cable of ıa proved too short, and Milath was carried away by the flood and drowned. e drifted lifeless against a rock, and her hair got entangled in the boughs of a e, where she was found by her friends. According to some, the body was anged into a stone, which is still to be seen; but others say that it was revivified a Kalit woman who took her form, and that she bore to the men who had ken part in the search those five children from whom the population of the lew Islands is descended. The Banks Islanders tell a somewhat similar tale. herwise these floods are not always of the nature of judgments. Ndengei leed causes one when he turns round. Here, as everywhere, legends of migra-ns are mixed up with the floods, and thus even historical migrations of the cific races connect themselves therewith.

The service of the gods is not exclusively the priests' affair; but they occupy ore-eminent position in consideration of their holding intercourse with the highest ong the heavenly beings, and attending to their sanctuaries and sacrifices. thing is more sacred than matters connected with the gods; temples, idols, crifices, feasts, and whatever is used thereat, animals, trees where the gods are nt at times to stay, and the like. In Tahiti the custom by which the king, as e most sacred member of the community, entered the house of a god at its dication for the first time unattended, has been transferred to Christian churches. ery man's immediate worship was paid to the god of his family. To this nily-god the father of the household prays before the fire at the time of the ening meal; and at family feasts the eldest offers the *ava*-bowl to the gods of e household. But the child is dedicated at birth to the communal god whom e priest serves. He appears in the form of an animal, whose movements the ests interpret as omens. Lastly, the priests serve the great gods of the nation, ing themselves chiefs or closely attached to the chiefs. Thence arose the state-nt, due to misunderstanding, that private persons served their gods in person, lefs through the priests.

These priests are in Tonga distinguished by the name "set apart," since they e men with a special kind of soul. Their posterity are regarded as similarly dowed, and thus the priesthood is always hereditary in a family standing over at of the chiefs, or the chiefs are themselves hereditary priests. A certain aracter of *Dei gratia* extends even to the village headmen. In Samoa the fire ay not go out, even at night, in a chief's house. Whoever would not bring the e first-fruits to the chief of his village was overtaken by disasters, for the chief

shared the taxes with the *Aitus*. In time of war high chiefs remain in village to assist by their prayers ; but on serious occasions the priest is taken i the battle to curse the enemy. In Hawaii one member at least of a chief's fam received consecration to the priesthood. The priest is possessed by the souls the dead, and his family god is his helper. Beside this inspiration a great deal valuable traditional knowledge belong to him, the most important parts of wh go back to the very highest gods, and form a source of great influence. I priest can succeed in getting possession of any small portion of another man, can by art-magic exercise power over him, so the good and ill of their fellow-m is in the priest's hands. For this reason the chief's pocket-handkerchief carrie Hawaii is never allowed to go far away. Relics of dead persons afforded most important means of magic. In Mare a tuft of a priest's hair, his eyebro bones, finger and toe-nails ; in New Caledonia his finger-nails ; in Tonga, b figures in human form ; in Samoa *tapa* which has been worn by renowned ancest



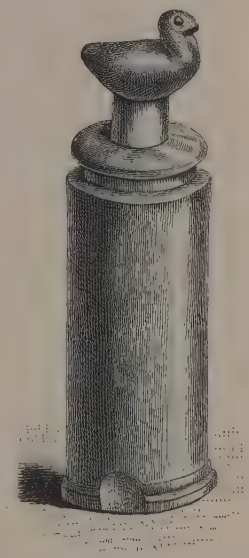
Love charm, from New Guinea—one-fifth real size. (Christy Collection.)

are talismans. But the most high valued article is the skull, which prepared, preserved, and venerated the most various ways. A ma hair, nails, etc., slowly burnt in certain mixture, react on him so to cause illness or even death. I piece of a dead man's bone is wrapp in leaves and laid in the way, wh a verse is sung, the person for wh the magic is meant will be visited with boils, eruptions, and so on. The Ma priests kill their enemy by putting a stone for a heart into his image. Bes the priests there were sorcerers in New Zealand, astrologers in Hawaii. In latter country the sons of Hina, the Polynesian Selene, were instructed in ma by their mothers. Great value was set upon knowledge in the priests. Th name Tohunga, literally " interpreter of tokens," was applied in New Zealand any person conspicuous for achievements in any line, whether canoe-building spear-making ; he was a learned man. All the *tohungas* in a New Zealand tr regarded the most learned as *Tino Tohunga*, the highest of all, and he lived w the *ariki* or chiefs. Where there were no bards, as in the Marquesas, the prie were the guardians of historical tradition, as for instance the *Kahunas* of Hawa

The social position of the priests was different in different groups. O wardly they were distinguished by their tattooing (of wavy lines on the forehe among the Maoris) and their long staff. Priest-kings, or *ariki*, formed amo the Maoris the top of the social structure. They did not go to war, but left th duty to a selected chief of their kindred. They retained the power of laying taboo, even if the chiefship had been transferred to another ; and boasted of bei sprung from an older branch of the common family tree. None but the *ar* knew the sacred songs. The place where he sat had to be avoided, or taboo and to touch his hand was a capital offence. In Tonga, the eldest niece of t *Tuitonga* was a priest-princess, ranking with, and in some respects above, the prin In other cases, those who were permanently inspired were priests only, even wh they were only honoured servants. Boat-builders, as servants of Tangaroa, h priestly privileges ; and in Oahu a chief was at once priest, schoolmaster, fish

n, and maker of wooden bowls. Among the Marquesans, the *atuas* or god- prophets were at the head of the tabooed ranks; next to them came editary chiefs; then the *tuas*, who prophesied amid convulsions, and after their th received sacrifices as *atuas;* the *tohunas* who offered sacrifices in accordance n tradition; the *ouhous* or *moas*, assistants of the sacrificing priest; the *toas* or lers in war; and lastly the *natikahas*, who uttered the curses. In Hawaii, , the priest took precedence of the prince. Disputes about the sanctity, or privileges of the priests, have very often occasioned splits in the tribe and rations. Migrations of idols carried by the priests form an interesting part of Polynesian migration legend. In order to maintain place, or rise higher, the priest had to offer sacrifices no small number. Among the Maoris, the *tohungas* d in celibacy, but the chief priest of the tribe had to ry in order to keep up the succession. Besides this, consecrated *tauiras* had to fast, and lived apart from rest with the priests, round the temple.

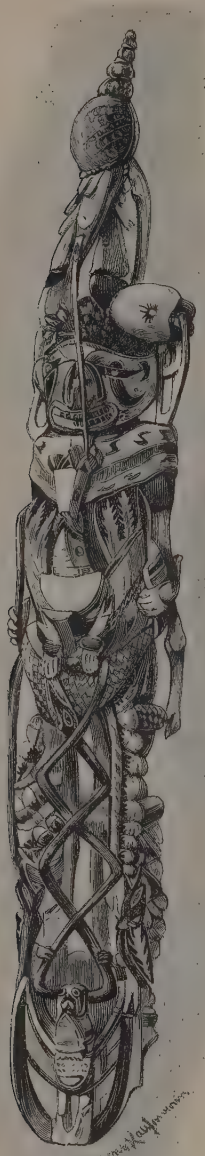
Yap, Nukuor, and other Micronesian islands, have a st-chief, and priests as distinct from sorcerers. In- ble Kalits pass for oracles by a fraud, at the back of ch are the priests. They possess houses in a number districts, each inhabited by a woman who is per- nently dedicated to them. Many obtain great in- nce through intercourse with sacred animals. Lastly, taboo-system contributes here also to the creation limits, whereby the priests keep the power of inter- ng in every relation of life. In quite small tribes, the st person undertakes the management of worship, le in larger communities he has beside him a priest, is doctor, weather-maker, and sorcerer. He must e the faculty of going into an ecstatic state. Tradi- is preserved in the family, and in his conjuration the st turns for inspiration first to his ancestors. If he ancestors in whom others believe, he is doubly quali- to be priest.



Article employed in Melanesian rites, for holding objects of use in magic—one-half real size. (Berlin Museum.)

The priests draw omens from the sky, from the barking of dogs, the crowing cocks, etc., or from their own oracular implements. Before a war, the Maori st prophesies by putting up carved sticks on a sand-heap, according to the nber of the friendly and hostile tribes, and throwing at them with a bunch of ngs tied together; the forecast is propitious if the sticks fall up hill. Before undertaking, the Maori used to deliver magic sentences. Every chant has rhythm, and is divided into verses, so that it may be propagated more easily m one generation to another. Other songs have an expiatory effect. The *ta*, or vision, is a mirror of the future. Nightly visions are interpreted as the l's journeys into the spirit land; and for this reason dreams serve to prescribe al decrees. In Hawaii, the priest, when prophesying, made the symbols of nder and lightning with his stone axe, by way of calling upon the god of the for aid.

The consecration of the priest took place with great ceremonies. In New



Human figure of shells and hermit-crabs, used as a temple-ornament in New Ireland—one-eighth real size. (Berlin Museum.)

Zealand, where there was a kind of school of t
priests, the candidates stood under a covering
boughs with one foot in the water, the other
land. The secret science of the priests was i
parted to their disciples by the head of the recor
this law demanded extraordinary attention.
single wrong word in conjurations might sp
everything, and even be fatal to the priest. Co
mune and tribe were no prouder of their god th
of his tried and tested priest.

Where things are on a small scale, the priest
doctor as well; but where men are assembled
larger numbers, as in Hawaii, Tonga, or N
Zealand, there is a class of priests specially oc
pied with medical practice. One of their ch
duties is to get some information from the de
about the patient's illness; to this end the pri
sitting near the sick man after conjurations, a
dresses inquiries to the deity, and receives
answer in a shrieking voice. Sicknesses wh
cannot be cured by the priest are described
coming from forefathers. In the administration
justice, the priest's duty consists in discovering t
criminal by secret means. They look for him
the water; if they cannot catch sight of him th
make fire by rubbing, and utter a curse over
In this way they endeavour to find those who ha
caused perplexing cases of death by magic a
Most ordeals also are in the hands of the prie
in Hawaii, the suspected person must hold
hands over water, and the water must not trem
in the vessel while the priest looks on him.

Dances and songs are indispensable parts
divine service, especially at the feast of the brea
fruit gathering. In this either they use danci
staves, or the operation consists only of harmonic
movements of the arms and legs. Semper hea
of loose dances practised by the women of Pel
it was said on moonlight nights, in honour of
female deity, but he was kept in the dark on t
subject. Dances are held to the accompanim
of songs recited by girls, in honour of fortun
head hunters. On these occasions it is usual
paint the legs and all the upper part of the bo
red, but a good part of the veneration of the go
consists in silence. Gods who possess no temp
must not be disturbed by noisy movement or shouting. When Rong
descends upon the island of Fais, there must be neither talking nor noise. T

abitants draw near to the forest only in festal garments and softly. Sacred ces are of many kinds; one must not always expect buildings, the whole rld is animate, and all Nature may be regarded as a temple. Places are red only by reason of the spirits that are dwelling in them; where the ditions were simple, the priest's house, in which the fire might never go , was the locality for sacred transactions; every grave is holy of itself, and all these places there was a right of asylum. The soul-worship, customary e, gave rise to places of adoration, where in course of time the cult of other rits could also find a footing. Places devoted exclusively to the adoration the gods as a rule existed more in the eastern group of islands, but these ɔ were originally only places of burial. Since, at the death of any eminent son, no new burial place was made, but the interment took place in the ctuary of an ancestor, the sanctity attaching to a place mounted up. Large agonal stone buildings with steps were rare, and were devoted only to the most strious; while in more recent times they seemed to have ceased. More usually tangular mounds of earth were erected, 10 to 14 feet in height, surrounded at bottom with a low wall. The level top was often paved, and one or more tty shrines stood upon it, their floors carefully laid with small pebbles; these ered the grave. On one of the longer sides, two or three high steps led to the el top, which was surrounded on the other three sides with a wall or a hedge. it stood altars resembling high platforms, and also images of the gods, some which were also usually fastened to the surrounding walls. There were single uses for the priests, and even sacred trees. In those times, too, the images of chief gods were not in the temples, only on solemn occasions they were ɔught from the priests' house into the temple by sacred bearers who were not ɔwed to carry on any other occupation. In Micronesia, enclosures and buildings wood and stone, frequently coinciding with burial places, serve as places of ɔration, called *Marae*, and *Amalau*. Mausolea of this kind in the interior of tuma, consist of stone buildings like dolmens formerly used for graves; they octagonal near Metalanim in Ponapé, made like three boxes, one inside ɔther, or in cellar-like excavations filled with bones; there are similar buildings Ualan. Other sacred stone erections take the form of a small step pyramid, ended by a stair, and with a summit crowned by an upright stone. In the lew Islands, the Kalits dwell in octagonal wooden huts, inside of which a small rtition of boards is set up, while the priest, through whom the spirit speaks to n, lives outside. It is just the same in Fiji, but here the old fashion is giving y to modern times. Semper even saw Kalits dwelling in simple huts. Among Melanesians, again, the sacred places are graves, spots where the skull and ier remains of ancestors are preserved, and solitary places in forests on the ɔre, on mountain tops, in caves, which spirits like to visit. The nearest ɔroach to temples are the common meeting-houses. In the Solomon Islands se are called sacred houses—the name "devil's house" is naturally the offspring European fancy; but they are never used exclusively for religious purposes.

A far-reaching influence was produced on the life of these races by the fact t they made no special images of their gods, but regarded them rather as y temporarily embodied in arbitrarily selected things. Fetishes of this kind re, however, not absolutely necessary for intercourse with the gods. Prayers ered in a low tone with a whispering movement of the lips were, as with us,

directed up to heaven, and in Hawaii customary language drew a contrast betwe the worship of idols and speech addressed to invisible beings. The idols were o reverenced when the god had taken up his abode in them, and the priest co obtain this by prayer and sacrifice. The choice of objects was quite arbitra it might be matting or wood, but only the sacred wood of the tree *Casuari equisetifolia*, and only if this could not be obtained that of *Calophyllum*, *Ficus*, *Cordia*. Stones were employed very frequently, roughly worked wood-bloc with a human countenance recognisable at a pinch, and frequently with t sexual parts indicated in an exaggerated degree; blocks of stone simila worked, even imposing statues, as on Easter Island, and giant stone figur spirits of the sand and of the rock are the nearest approach to our idea of idol. But as a matter of fact, these are often less revered than some perfec arbitrary figure—a bit of wood bound round with string, or a twig of bana tied up with coco-nut fibre. We must not see an "idol" in every carved imag for figure-carving is an art, carried on *con amore* and with great ability. In t stone figures we may possibly assume the survivals of a former cult, holding closer relation to mythologic and historical conceptions than does that of shap less lumps of wood. In the west we are obviously much nearer to the origin these figures. If a Papua has died, his son carves a figure, sets it up in the hou and calls upon it in difficulties; when the sculptor himself dies, his son mak an idol of him, and throws away the now useless grandfather. In the Duke York Island (New Lauenburg) have been found double idols, supposed to rep sent an ancestral married couple. These figures of souls conventionalised c easily pass into regular idols. The idols from Dorey in New Guinea, 6 to inches high, represent unquestionably a sexless being, standing with its ar supported on an ornamental trellis (as in the cut on p. 301). This developme converts the domestic ancestral figure into a public institution. In the Solom Islands crude carvings of this kind support the roof of the assembly hall. the far-famed Hawaii feather idols, the idea of the mythological bird (for instan the sacred *alae* bird) lay no doubt originally at the root of the representatio In Tonga the patron god of a tribe was symbolised by a folded mat with r feathers; in New Zealand red feathers were strewn about to ensure fertility.

Idols were set up in spots where immediate help was expected from the Along the roads in Hawaii stones wrapped in grass are pointed out as local goo and on mountain-paths sacrifices were offered before upright stones to avert fall. To this class belong also the gods' footprints in stone, to which legen have become attached even in comparatively recent times. Near Taupa in N Zealand a chief left his footstep on a rock; and the prints of a chief who h been slain by Kamehameha were pointed out to Birgham. The temple precin was a recognised asylum wherever social relations were at all advanced, a herein temple and grave coincide. In Hawaii, asylum might be sought near t grave of the kings, and similarly in Tonga a chief's burial place was holy groun Also the capability of affording protection passed in both cases from the pla to the priest who served it. In Ranai an asylum was formed diagonally acro the island, by a simple process. The priests allowed fugitives to pass under the staves, which they then crossed against the pursuers.

Where the souls of ancestors held the front place as objects of veneratio sacrifice and prayer were devoted to them; elsewhere spirits were the objects

ese. But prayers of themselves reckoned as oblations—traditional forms, of ich the meaning had often been long forgotten, but which had always passed inheritance, and were even imparted for payment to the ignorant. Interces- y hymns, well composed and often very ig, were distinguished from short invoca- ns, the productions of the moment. They re held pleasing to the god, and even placed the sacrifice. Fison notices, with gard to Fijian prayers, that petitions to the ejudice of an enemy as a rule balanced se for the suppliant's own profit.

In funeral customs the main underlying ought is the sacredness of the corpse by ason of the neighbourhood of the soul, en after its departure. But this only holds od for the relatives; strangers have no uple about injuring a dead body. All alings with the soul, which has been taken to the gods, are most easily carried out the neighbourhood of the body. For this ason, in New Zealand the priests sing over e body to assist the passage of the soul wards at least to the eighth heaven; and the assumption that the soul must be ited, if not compelled, by prayer or magic leave the corpse, they stroke this with a isk, and shake it. Visits paid by souls living people are often hindered by putting a mask, which would cut off the soul's urn. Souls which neither remain united th the deity, nor can be propitiated by crifices, roam about the houses at night ghosts. These wandering souls may be ard in the rustle of the leaves and the rge of the waves, or seen by moonlight as ite phantoms. Souls of persons who had ed at a distance were enticed by spreading white cloth, and if a grasshopper or an ant me to the call, it was deemed that the end d been attained. Old age often obtained erence from a wish to be on good terms th the soul which was soon to depart. e deeper meaning of the widespread stom of sending wives and servants to company the dead into eternity, lay in the sh to give the departed soul an escort, or to send at least one soul as protec- n, in case it stood in need thereof. In this way a mother, grandmother, or nt was strangled when a child died, that the infant soul might not be

Child-mummy on the bier used for burial, from Torres Straits—one-sixth real size. (Berlin Museum.)

unprotected. Provision also had to be made for the fights which, as we ha seen, take place on the road to Hades. It is only after several days, when may be assumed that the soul of the corpse has been turned into a spirit, th the mourning begins; its object being even to this day to start the spirit up the road into the next world, which it is perhaps unwilling to take. In vi of the possibility of a periodic return, care is taken to renew the noise at stat times.

Great variety prevails in modes of interment. In the west the body is ke at hand as long as possible; and at least portions of it, especially the skull, a above all the lower jaw, are prepared for permanent conservation. On the Macl coast of New Guinea the corpse has usually to be dried before the fire in the h In other islands it is hung up in mats between the branches of trees until t soft parts have decayed away, after which it is laid symmetrically with both skeletons in a cave on the seashore. Children's bodies are merely hung up basket under the roof. Burial within the hut is customary in Fiji. Among t Motus of Port Moresby the only sign of mourning is the incessant beating drums for three days. When this is over, the grave is dug in front of the hou the dead body laid in a mat, and a little hut built over the grave. After a tir the grave is opened, the corpse taken out and smeared on the elbows and kne with red ochre, while the widow smears herself with the decaying flesh. Th the dead man is put by again, and the little sepulchral house is gradually pull to pieces, so that no trace of the grave is left. All these proceedings a accompanied by carousals.

In Tonga the corpses of eminent persons were washed, ornamented and oile and watched by women. At the actual interment the relations, clad in torn ma and wearing chaplets of the leaves of the *ifi*-tree, carried the body into its hou and buried it there in its clothes, often in a chest or little boat, and its mo valuable possession with it. Then all, loudly singing, went to the shore, ma baskets of coco-palm leaves, and poured white sand therein, with which they fill the upper part of the grave. The men remained for twenty days in light constructed huts near the house of mourning, the women within, both occupied sacred offices. On the twentieth day, all went again to the shore, fetched bla and white pebbles in newly-made baskets, and paved the sepulchral house ther with. In Tahiti the entrails were removed and the cavity filled with cloths dipp in essential oils. The body was then kept till it fell to pieces, when the bon were buried, and the skull set up among the family. In the Marquesas, t notables were buried in the *marais*, in a sitting posture, with the knees draw up, and the head pressed down between the legs, and the hands passed und the knees. Funeral feasts were held, the invitations to which were carried b richly-clothed messengers.

There is an immediate relation between the dignity of the soul of a dea person and the treatment of his body. The lower classes seem often to ha taken little trouble about their dead. In Hawaii a common man buried his dea in a crouching posture, wrapped in cloth, in a cave or in the ground; sometim in a house. Food was put beside him. In New Zealand the slaves were thin covered with earth; or in many cases thrown to the dogs or cast into the se In some districts it is said to have been usual to burn them. In Mangaia th custom obtained of wrapping the dead in white stuff and throwing them into o

of two deep holes, according to their rank in society, the entrance to the nether world being different for persons of high degree and for the common herd. But in the higher classes the corpse was generally mummified, and exposed to view for a certain time in the temple or the dead-house. For the purposes of embalmment the entrails were removed. In Hawaii the flesh was carefully separated from the bones and burnt; while of the bones themselves part were deposited in the family *heiau* as objects of divine honours, part distributed among friends. A kind of embalming also took place in Hawaii, and was not unknown in New Zealand, where burial customs most resembled those of Tahiti. There people's own houses often served as graves, the remains of the dead being allowed to stand in chests; otherwise they were interred. Children's bodies were also hung up in chests among the boughs of a tree. Indispensable articles were the *kehui*—the word means "forbidden," and passes into "taboo"—wooden posts, painted red, with carved faces, which stood round like sentinels.

Only in certain small outer islands were variations found. In the Gambier Islands the mummies were laid out wrapped in mats and cloth tied up with strings and put away in mountain caverns. In Falefa chiefs were preserved in a hut or in a cave laid upon a double canoe. In Mulgrave the dead were laid out upon stones covered with coco-palm leaves and afterwards buried in the family vault. Isolated cases of the disposal of the body by launching it out to sea in a canoe were obviously a variation of the custom of placing a conveyance at the disposal of the soul for its journey into the other world. In the Gilbert Islands a widow sleeps under the same mat with the corpse of her deceased husband until the head drops off the body; the skull is then cleaned, and she carries it about with her constantly, as is also done with the skull of a beloved child. This cult of skulls is also found elsewhere in Micronesia. In Yap the dead are never buried in the neighbourhood of the sea, the inhabitants of the mountains never anywhere but on mountain-tops. Adults were placed in a sitting position with knees drawn up, children and young people lying down. A curious combination of land and sea burial is found in Kusaie where the bones after burial are dug up, cleaned, tied in a bundle, and sunk in the sea.

Where interment is usual the skull is often separated from the body. Owing to this A. B. Meyer was enabled to acquire many human skulls by barter, since the Papuas did not hesitate, after exhausting their own store of slain enemies' heads, to plunder their relatives' graves; yet they could not at first make up their minds to hand over the lower jaw. Thus reverence for human remains has its limits, and yet these Papuas in West New Guinea always avoided handling the skulls.

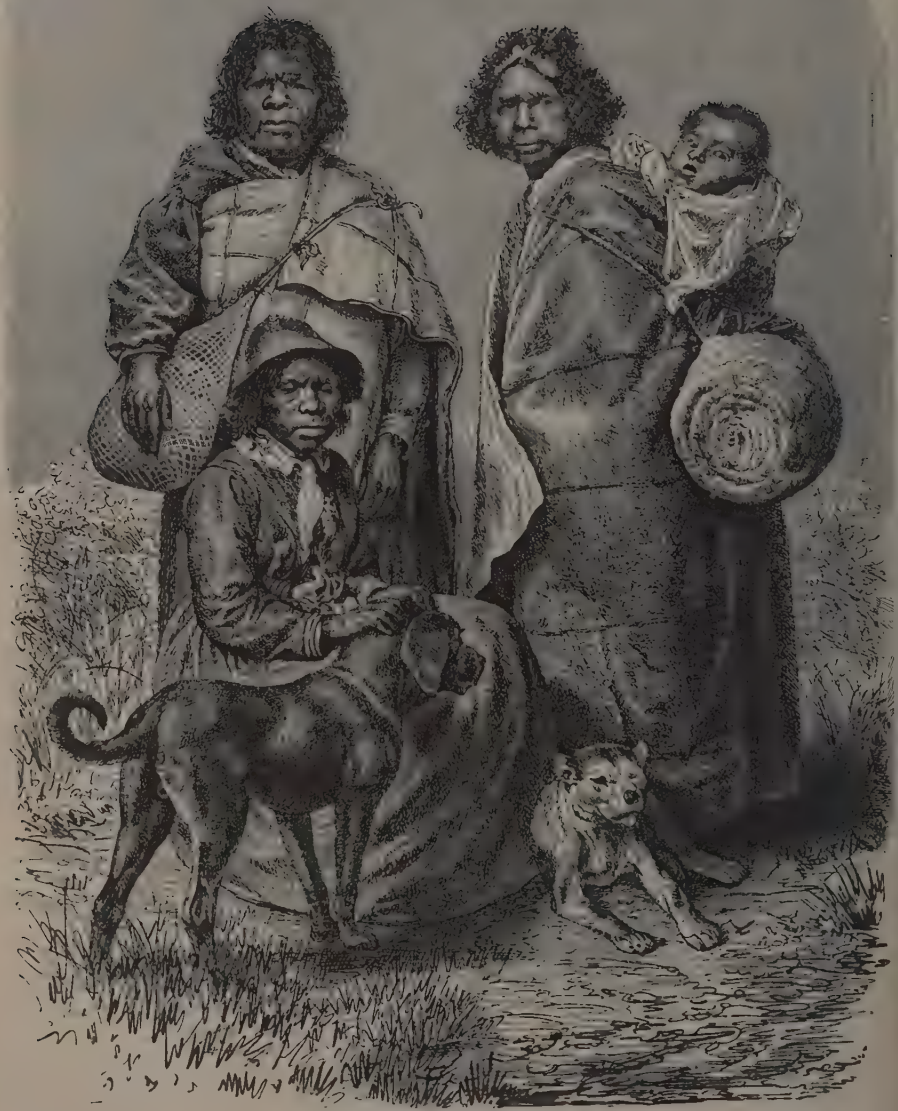
Great differences also occur within the much narrower limits of other archipelagos. On some islands in the Solomon group the corpse is thrown into the sea to swim away to the beautiful land in the west; in Anaiteum it is only the body of the supreme chief that is interred. Before they are thrown into the sea female corpses are clothed with their girdles, and males have the face painted. In other islands the bodies are wrapped in mats and taken into the mangrove thickets, where they are exposed to the air until the head can be easily separated from the trunk. The head is then prepared and the rest buried in the common burying-place. In San Cristoval and other places, the dead are laid upon a high stage, and a trench is dug underneath to receive the flesh which is sliced off by the

mourners; skull and finger-bones are taken away as heirlooms, and a hut or pyramidal framework covered with leaves is erected over the trench; graves of children are strewn with flowers.

While in Tanna the corpse is laid in a boat-shaped coffin, in New Caledonia paddle and spear are set up on the graves. Here ornaments are put with the body, but if not the whole skull at any rate the lower jaw is preserved as a relic and so in New Ireland, Duke of York's Island, and Vate. In the last-named island trees in the neighbourhood of the graves are cut in a peculiar fashion.

The outward indications of the grief of the mourners go as far as self-injuries and mutilations. In Tonga, when the king's mother died the chiefs descended from her branded their temples, and at the death of the high priest it was usual to cut off a joint of the little finger. The Tahiti women used as soon as they were married to fix sharks' teeth in a wooden handle with which to wound themselves when mourning for their husbands. On these occasions they, with their friends invoked the soul of the departed. In Tahiti also, the chief mourner wore clothing made of the shroud, while the others went with their clothes torn and sprinkled with dust, and the neighbours who came to lament had a sham fight with the household of the departed in order to the due performance of the common lamentation. Funeral fights were also held in Mangaia, where all the friends of the deceased went about the island in strange clothing to attack the ghosts of other districts.

The practice of burying alive is widely extended, it was extensively used as a means of infanticide, but old and sick people sought of their own free will to be buried. In the case of new-born children a fire was lighted over the grave to stifle the soul. In Vate, when old people are to be buried alive, a pig is tied to their arm, which is afterwards consumed at the feast and accompanies the soul into the next world. In the Fiji Islands it is also customary to strangle, and the cord is regarded there as a great kindness in comparison with the club. If a chief in the Solomon Islands dies his wives are strangled in their sleep; it would be a shame for them and an insult to the dead man's memory if they were to marry men of lower rank. The same end is frequently allotted to the wives or nearest relations of an ordinary man; even in death he must be surrounded by those who love him. In Anaiteum the women are said to wear the ominous cord round their necks from their wedding day.



South Australian Native Women.
(From a photograph.)

B.—THE AUSTRALIANS

§ 10. AUSTRALIA

AUSTRALIA, forming the south-eastern border of the great mass of land belonging to the "old world," looks south towards uninhabited regions, east towards the Pacific crowded with islands, numerous indeed but forming collectively only a small surface of land. Its position reminds us of South Africa. Those sides of the divisions of the earth which look out into vacancy were historically dead until a few centuries ago oceanic navigation brought to them trade and colonisation from afar. Australia, the most insular of all the quarters of the globe, has received a larger share than all the others of that culture-stunting gift—vacant coasts. Its situation, open on three sides, forbids us to doubt that in so far as Australia has any recognisable relation with other parts of the earth, it can only be with Asia and the island world,—what little intercourse it had in the pre-European days, and the immigration of certain plants and animals, all point to this. This justifies us in claiming Australia as part of the old world, which can do no harm, especially from an ethnographic point of view. With great probability as regards its human population, with absolute certainty in respect to our modern culture, Australia may be regarded as the most south-easterly portion of the old world, as a dependency of Asia. If we consider the question of distances, the inhabitants would, without navigation, be confined to their quarter of the earth, but with even primitive navigation they could reach Asia and more immediately the eastern parts of the Malay archipelago. Their civilization will therefore have an isolated character; but where there are deep-lying connections with the outside world, we shall have to direct our inquiries towards Asia.

Even if Australia has more peninsulas than America and Africa, its coasts in compensation form the most desert portions of the land. Along the east coast runs a chain of mountains, the only marked watershed from the North to the South Cape. Similarly, the moderate elevations of West Australia rise near the coast. A great part of the north and north-west is a plain sloping up gently from the sea, and reaching its maximum height of 1600 to 2000 feet in a distance of 50 or 60 geographical miles. Rivers of similar fall flow down the slope, and often in the heavy tropical rains overflow their banks widely. The Barcoo, flowing along with a slight gradient and endless windings, is capable of watering a full third of the interior with its tributaries, that seldom have any water in them. But the South Australian lake region, towards which it bears its waters, does not rise very far above the level of the sea. The characteristics of its desert shores are sand hills between the lakes and on their banks, stony flats resembling the sea-shore and soil impregnated with salt. There is only one river system of considerable import-

ance, that of the Murray, the sources of which occupy the whole region on the western slope of the mountain range from New South Wales to Queensland. In the north and north-west, where there is more rain, watercourses are numerous, but there is no stream. In the west and interior, we find no doubt plenty of watercourses on the maps, but none in reality. They are merely creeks and

Eucalyptus Forest in South Australia. (From the account of the voyage of the "Novara").

water-holes filled by rain during a small part of the year. We shall see how closely the life of the natives is bound up with these transitory watercourses and springs, and how insecure, owing to this dependence, is their entire life. The most promising collections of water dry up with extraordinary rapidity. The changeable direction of the streams, even in the larger river beds, makes the habitability of wide districts, if no permanent precautions are taken for damming up superfluous water in the wet season, a matter of uncertainty. The rapid change from

vet to dry causes wide tracts to become barren and desert. Even the lakes are ubject to this, and the maintenance of old lakes or creation of new ones has become one of the most prominent necessities in the cultivation of Australia. Wide districts are impregnated with salt, and perfectly sweet water is a rarity. "Good water," says one of the missionaries from Hermansburg, speaking of the ower Barcoo, "that is, understanding it in the Australian sense; for what at home ve call bad water, passes here for good." The abundance of salt, by limiting the egetation, produces in the interior landscapes which resemble barren coasts; salt akes with islands consisting of sand dunes are among the characteristic features f West Australian landscapes.

The climate of Australia is predominantly dry; the moist breezes which blow rom other zones upon the north and south-east portions, cannot prevent the undamentally dry quality of the trade-wind climate from prevailing over the ntire continent. If Africa was limited to the region north of a line drawn from Cape Verd to Cape Guardafui, we should have in the northern hemisphere the ounterpart of the climatic conditions of Australia. On the south coast, a climate ike that of the Mediterranean prevails, with sharply-defined dry and wet seasons. Between 30° and 18° South latitude lies a band of desert plateau corresponding vith the Sahara, while in the north we have the rainy season of summer coming n when the sun is overhead. While in New Guinea, in the neighbourhood of the Equator, the rainy time extends over the greater part of the year, we find in Tasmania rain at all seasons as in Central Europe. Thus there remains in the orth and south a considerable quantity of sufficiently fertile land, and to call Australia *desert* is going too far; the effect of drought is confined mostly to the plateau formation. But even where the total amount of water which reaches the arth is not absolutely small, it is often unfavourably distributed. As we go inland rom the well-cultivated coast, the fields and pastures of the flourishing colonies f South Australia, Victoria, and New South Wales, are only too often visited by he most ruinous droughts.

The very appearance of the landscape in this region expresses dryness. Dryness and stiffness are the distinguishing marks of the Australian flora, even in the nost favoured districts where lofty forests rise on the banks of permanent streams. The flora, though considerably richer than in Europe, is more uniform and less expressive. Australia is poor in forests; trees when growing in masses have here he character less of forest than of grove. The wooded grass country is a possession of Australia no less beautiful than useful. In the south-east and the north prairies of a considerable extent are found, and upon these the most extensive nd most important branch of Australian industry is maintained. As the country becomes dryer, the grass thins away into isolated tufts, and takes the form of steppe, which gradually passes into desert as barren rock appears, or as the ground becomes impregnated with salt. The Australian steppe, in its most inhospitable form, is the scrub; the region covered with inpenetrable bushes where the surface s covered thick with a tangle of *ericaceæ* and *proteaceæ*, with trees rising out of them here and there. The ordinary height of these bushy steppes, which cover many square miles, is always more considerable than that of our heaths. The forest savannah has been extolled as the blessing of the country, the inland scrub is its curse. Leichhardt, Sturt, Stewart, wandered round the scrub for weeks, nay months, without being able to find any way through it. Another steppe, overgrown with

the spinifex, *Festuca irritans*, affords a friendly and homelike picture of fields of rip corn as far as the eye can reach, but in reality belongs to the most desolate an dangerous regions, for the grass-like stalks are dry and contain no nourishmen standing sharp and stiff. If then in estimating the capacity of Australia fo culture, we can call it rather a great steppe country than a waste, yet thes hardly accessible plains must be for a long time, and notoriously were for th aborigines at any time, a grea hindrance to movement and t the production of food. Wher the steppe thins away and drie up to a desert among sand dune salt, or rocky plains, its appear ance is seldom so hopeless as i the great deserts of the ol world; it is hardly anywher denuded of vegetation. It counterpart is to be found in th lesser Kalahari; the Sahara i incomparably barer, but ther we find not merely an alterna tion of rock plateaus and sand plains, lofty mountains and dee depressions, uninhabitable region and groups of oases, but abov all whole nations, peoples o various race and speech, town villages, herds, roads, trade, an intercourse. The Australia desert suffers from the mos tedious monotony, but has th advantage over Sahara in it more limited extent.

Marsilia Drummondii.

The wealth of Australia i food products must not be judge from the fact that no single in digenous plant has become a object of agriculture. We do no yet know all its articles of food, but some of them are things of which we shoul never have believed it possible to make use. Of vegetable food-stuffs, Grey adduces for South Australia alone twenty-one different roots, *dioscoreæ*, orchids ferns, a *typha*, and others; four kinds of gum or resin, seven fungi, several fruits among them a sago palm, and lastly the flowers of the Banksia with abundanc of honey. In the north the list is larger, being materially enriched by others sago palm, cabbage palm, the shoots of the mangrove, which are pounded, fer mented, and eaten mixed with an indigenous bean, the grain-bearing *marsiliaceæ* the roots of *nymphæa*, and several fruits. The North-west Australians know how to deprive the sago fruit and the orchid bulbs of their poison. It is true that the root of the so-called Australian yam is small, and the eucalyptus gum has no

ich nourishment; and we must also admit that Australia is remarkably poor in plants which take away something of their natural poverty from other steppe ıntries, such as the various species of cucumber, gourd, and melon, and the ious bulbous plants. But the fact that the Australians of themselves never ched the agricultural stage, depends not so much upon their flora as upon the gree of their civilization. So again, the fauna of Australia has not produced a gle domestic or useful animal. Those who know, declare that the mammals ich would be first in demand are too wild; the dingo, which is the only ıstralian mammal accessible to taming, was in all probability imported tame, d afterwards ran wild. But with the poverty of vegetation, the fauna which l live in a wild state is poorly represented here. Significant also is the rarity fish and other eatable aquatic animals caused by the deficiency of water. The uth Australians first learnt from Europeans to eat oysters; the West Australians four or five kinds of snakes, some poisonous, and three kinds of lizards. The ıb of a beetle which lives in the grass palm is also much fancied, and birds' gs are eagerly sought. The only parts where the larger mammals, especially ngaroos, still abound, are the broad grassy plains in the north and north-east. e poverty of the continent in animals has played an important part in the ploration of Australia, since no expedition has been able to depend for subsist-ce upon hunting. Kangaroo and emu hunting must, on account of the swiftness those animals, have been extremely difficult for the Australians, equipped as they re with inferior weapons; and besides this, snaring must have been rendered ficult by the nocturnal habits of by far the larger proportion of mammals.

§ 11. PHYSICAL AND MENTAL CHARACTER OF THE AUSTRALIANS

iformity of bodily characteristics throughout Australia—Mental distinctions—Malay and Negroid forms—Woolly and straight hair—Big and little men—Languages—Character and mental peculiarities—Courage—Writing—Language of signs—Rock-drawings—Effect of nomadism—Instances of its extent.

HE prominent characteristic of this continent is the agreement in degree of lture, in manner of life, in customs, to a certain extent even in language, and at a greater agreement than we find anywhere else in an equally limited area. ıt physically too the Australians have seemed to many modern anthropologists be so little separated that the descriptions which these have given would hold od from the Murray to the York peninsula. It is said that they are men of edium stature, not badly proportioned in themselves, but lean owing to bad trition. In their cast of features may be recognised an intermediate stage tween Negroes and Malays, what is called a hybrid physiognomy. We are minded of the Malay by the straight rather than woolly hair, the prominent eek-bones, the light brown or reddish tint of the skin; of the Negro by the ominent eyebrows, the flat nose, the thick lips, the prognathous jaws. A nspicuous mark is formed by the insertion of the nose, so deeply depressed at a line drawn from one eye to the other describes only a slight curve. In ild they are slim rather than squat; almost all over the continent it is only in ell-nourished individuals that arms, legs, and often hips are not too fine. Muscular

development is not as a rule strong, but the joints show an astonishing supplenes so that the most curious and apparently laborious postures are often adopte when resting. They find it quite easy to dodge the flight of a spear by an almo imperceptible movement. It must be observed that too little notice has bee taken in most descriptions of the effects of defective nutrition, so that what is reall a mark of low civilization has been treated as a racial peculiarity. But we loo in vain for any really tangible marks such as a sharply circumscribed race ough to offer. Some peculiarities are to be referred to the influence of the condition of their life, some have been indicated by the most unprejudiced observers a marks of hybridism, while others, as for instance reports about the hair, are difficu to bring into any consistency. Whenever the question of the unity of th

Queensland girl. (From a photograph by C. Günther.)

Australian race has turned up, it has been found impossible to adduce any con vincing proofs of it.

We should most naturally expect a solution of this question from careful sku measurements, but what do these tell us? The Australian head is one of th smallest, but within these limits the variations are great. If we rely upon th twenty-four skulls measured by Davis, and the eighteen measured by Topinar the horizontal circumference varies between 19 and 22 inches, and the cub contents of the skull between 66 and 88 cubic inches. Davis even records measurement of 102 cubic inches. The marked prognathy, the projecting eyebrow the depression of the root of the nose, and the retreating forehead, Topinard faile to notice in five or six skulls out of eighteen. The roof-shaped skull which som anatomists have noticed as characteristic is anything but universal; it is absent i more than half of Topinard's list of skulls. With differences such as thes Australian skulls would seem to require classification rather than unification. I the colour of the skin two extreme types may be distinguished, one quite yello and the other black all over. The intermediate or dark brown is the commones but in no way nullifies the diversity of the two extremes. We meet with th

ıe in the hair ; curly haired Australians have been seen on Murchison Bay, on west coast near Port Essington and on the Bogan River ; microscopic observa- ıs further are said to show that there are persons here with completely Negro r. But one feature which is unlike Negroes and still more unlike Malays is the ng growth of hair on the body, particularly in the beard. The taunt applied beardless people, "You naked cheeks," is one of the challenges always taken by the beardless youth among the South Australians. A hairless Australian n isolated pathological accident.

The most important question in these circumstances is that of the geographical ribution of the various types, and no more positive answer can be obtained to nan to any other suggestion as to the affinities, differences, and origin of the stralians. The earliest reports in no way authorise us to see the lighter type

. Young Queensland man. (From a photograph by C. Günther).

the Malayan side or the darker in the opposite direction. Tasman in 1644, Dampier in 1686, found dark, woolly-headed people on the north-west coast ; it is no contradiction to this if Grey and Usborne found among them individuals a light copper colour, with smaller heads, moderate-sized eyebrows, and well- portioned limbs. In 1770 Cook saw in Endeavour Bay, on the north-east st, chocolate-brown, straight-haired, well-built men, with noses not strikingly and not very thick lips. Among the aborigines of the south-east there were nen as light as mulattoes. Dumont D'Urville notes certain tribes in the ghbourhood of King George's Sound as belonging to a more nobly-formed race. ilarly, Hombron and Flinders establish far-reaching distinctions between stralians of a higher and subordinate class. Stokes, one of the most experienced ll Australian travellers, sums up his judgment in the phrase : "The Australians y as curiously as their soil." Stuart and Leichhardt are astonished by the uliar and capricious differences ; and the discrepancies among the descriptions later observers who have been able to study the Australians at their leisure, ugh under the influence of Europeans, are no less strongly marked. We need

only recall here Wilhelmi's study of the Port Lincoln tribes, and Earl's remark, "A circle of 500 miles round Port Essington would enclose an equal number of tribes, varying from deep black to the reddish yellow of the Polynesians." This is enough to justify the assumption of a wide internal difference among the Australian tribes. Undoubtedly, darker and lighter, woolly-haired and straight-haired are mixed up together, but where must we look for their origin? Must we, with Topinard, speak of Negro and Polynesian, some Malay, and numerous originally Asiatic elements?

To the Australian aborigines the scattered and wandering inhabitants of the

Native of New South Wales. (From a photograph.)

small islands which surround the continent also geographically belong. T Melville islanders, for instance, are genuine Australians, indicated ethnographica as such by their inferior spears and clubs, their miserable huts and bark cano The Prince of Wales Islands in Torres Straits deserve mention, since their popu tion, the Kowraregas, form the extreme northern outposts of the New Hollande and are in immediate contact with the Papuas of Torres Straits. With their passi for wandering, the Papuas from New Guinea frequently visit these islands, so th

ey have a visible ethnographic bearing in that direction. New Guinea, with its apuan population, has always provided the most obvious source for the dark races, nd similarly the introduction of the straight-haired race seems in view of their olynesian elements as well as the neighbourhood of the Malays and their inter- ourse with North-West Australia, to offer no great difficulties ; but since we have o historical record of such immigrations, nothing but a sharp geographical separa- on of the two stocks according to their bodily characteristics could afford any cure evidence ; we can only regret that this is impossible.

Least of all must we overlook the effect of the modes of living in this land here strong contrasts in natural characters are so abundant. Much that has been id about the physical characteristics of the Australians reminds us only too rongly of the description of Bushmen and Fuegians. Schürmann ascribes a direct fect to the influence of habitation when he says : " Where the land is desert the habitants are few in number and of miserable appearance ; where the land is good ey are comparatively numerous, good-looking, and active." Besides this he finds at the stronger individuals are also the lighter-coloured, and here he has especially e South Australian tribes in his eye. That the women in general make a less vourable impression than the men must no doubt be ascribed to their more borious and burdened existence and to more deficient nourishment. As is usual nong people in the lower stages of culture who live under conditions of poverty, e Australians are not remarkable for great bodily power ; Europeans are better nners, jumpers, and pedestrians, but the Australians are dexterous in hurling pears, and no European has ever beaten them in throwing the boomerang. In e war of extermination which the colonists have carried on against them they ave continued to place many difficulties in the way of their destroyers by extremely ever employment of all their forces—even of their colour. Their marches are as rule short ; in the acuteness of their senses they surpass most Europeans ; even omen and children dive and swim well, save only in West Australia, where canoes nd rafts are also absent.

Diseases to which they are particularly liable are, according to Taplin, all those a scrofulous nature—phthisis, liver disease, dysentery, and epidemic influenza are pecially frequent ; measles and scarlet fever unusual even when they are rife nong white men in the neighbourhood. Small-pox has caused great destruction nong them, venereal diseases even greater. The frequency of old people is to be scribed not so much to longevity as to early senility. The great mortality among ildren is to be referred to hereafter.

Half-breeds between whites and Australians have some points of resemblance ith the Negro hybrids known as mulattoes. There is a considerable number of em in Australia, and their physical strength and dexterity are employed chiefly tending the herds ; they are fertile.

One almost shrinks from inquiring, in the case of a people whose conditions living are so unpropitious, into those qualities of soul and intellect for the pre- olution of which only the most favourable external conditions suffice. In order avoid being led astray by the phenomena of a dwindling race, we shall have assign more importance to natural disposition than to what has actually arrived development. In the disposition of the Australian, through his excessively omadic mode of life, an important feature is a want of steadiness. Young ustralians who have enjoyed the best opportunities of leading a tranquil and

profitable life have suddenly returned to savagery after years of successful education, after willingly adapting themselves to a settled life and regular activity, and in a short time have thrown to the winds all the requirements of civilization. In handicrafts and in the use of tools they have often been in no way inferior to white men, but they have lacked the power of concentrating their thoughts upon definite tasks. People have noticed in the Australians the acuteness of their senses, the power of imitating voices, an accurate musical ear,—all the results of a savage life. But the capital invested in this is not very productive; no permanent acquisition of culture results from it,—nothing which can secure to a man a firm grip on Nature. Their soul-depressing misery hangs as a counterpoise to it, and the Australian stands unquestionably far behind the ideal child of Nature—the North American Indian. To this the climate contributes; the Australian lives under the pressure of a climate particularly untrustworthy in respect of the moisture which is essential to the production of food. The oppressive heat of the steppe districts, the inevitable sudden transition to cold at night, contribute their stupefying effect. For this reason the Australians of the north are far more awake and intellectually more energetic than those of the south; they are, too, of a more stable character, and that says much. If in spite of this we find more intelligence in the south than we expect, it produces the impression of fragments from a better condition. "Nothing shows this better than religion, in which every detail rings like muffled voices from an earlier and richer time," says Waitz-Gerland. Life under these influences for a long period has caused much which formerly existed in their natural endowment to slumber. What stimulating forces are there in a tribe where not more than a couple of hundred people live together? Europeans have occasionally, though seldom, through their personal example, trained aborigines into men good for something. Yet in recent times a more favourable judgment of the Australian character seems to be in course of formation.

The mission schools show the Australians to be people of moderate endowments. In reading and writing they, as a rule, make good progress, but arithmetic is less satisfactory; in many parts the aborigines have no expression for the higher numbers. According to the missionaries they possess a faculty of imitation and a retentive memory, but their intelligence is shallow; everything with them is mechanical. They can be educated without very great difficulty in the simpler trades, but preachers and teachers, gifted like some who have been produced by Africa and Polynesia, are very seldom found among converted natives. Judged by the missionary standard, the races of Australia may best be compared with the light South African races.

If all knowledge is fragmentary, that of the Australians is doubly so. They possess a good deal, but always in fragments, which easily submit to their destiny of falling into the oblivion natural to all that is lifeless and disconnected. Language occasionally casts some light upon the mode in which the aborigines look upon Nature, as when those of Adelaide use a generic term—*paicha*—for all stinging animals, or when the Dieyeri have, besides their word for sun, moon, stars, special terms for the evening star, the milky way, a bright winter star in the northern sky, two winter stars in the southern sky, a constellation like an eagle's claw appearing in the west in the winter, falling stars, the rainbow, noon, south and north, sunrise and sunset; the myths also deal much with constellations.

ney know how to reckon time by the phase of the moon ; like the Polynesians ey divide the sky into eight regions, and name the winds from them. In the est the year is divided into six seasons ; their capacity for taking their bearings extraordinary, their knowledge of locality is so great that at the distance of a y's journey they can accurately describe the direction in which a point lies, d no less accurate is their recollection of localities which they have once visited.

Besides these practical acquirements, the intellectual life of the Australians has ry little to show. Taplin took some trouble to collect the traditions current nong the Narrinyeri, which gives a notion of the vacuity of their minds. This be supposes itself, before it came to its present situation, to have wandered wn the Murray and the Darling, and has some recollection of a devastating kness which, before the arrival of the Europeans, came in the same direction. me remember the terror which Sturt inspired in them when he crossed the lexandra lake in his boat ; and the confusion which two oxen, who had strayed

Billy Bull and Emma Dugal, natives of South Australia. (From photographs.)

m the eastward, caused in their camp, people retreating before them as if they ere demons. In 1840 a ship was wrecked, and twenty-five of those who caped were murdered by them. The Europeans killed some of them for nishment. In 1844 they killed a squatter, after which a good deal of friction sued with the white police. This is the entire history of one generation of an ustralian tribe.

They scarcely attempt to fix their ideas in writing, yet there is no doubt that e Australians have made more progress in this art than was believed a few ars ago. The first discovery of message-sticks with picture-writing capable of fording copious information to a native was made in 1880,[1] a further token of e extremely fragmentary state of ethnographical study in the Australian domain. hese sticks are brought to most perfection in West Australia ; in Queensland d New South Wales they are rougher. Similarly sentences, possibly exorcisms, e engraved upon stones which are used at the Corroboree dances, and not only e objects belonging to external nature represented in this picture-writing, but

[1] [This is hardly correct. They were known as far back as 1840. See *Journ. Anthr. Inst.* xviii. "Message cks."]

conventional signs are included, lines cut straight and slanting, and the like, so that it is something more than mere picture-writing. The aborigines are said to be very clever at writing and reading these primitive hieroglyphics; message-sticks of this kind have been conveyed to prisoners in order to inform them of plots for their release; they are said also to be despatched when two tribes declare hostilities. The stick also serves the messenger as a safe conduct, often over great distances. With them it is not a question of the interpretation of language, but the representation of ideas. Messages written on sticks are read by persons belonging to very different tribes, and understood with some explanation on the part of the messenger. They appear also as plain wooden staves, symbol of the message which is orally transmitted; the messenger is inviolable. The same object is obtained by simpler tokens; notches in the smooth bark of trees, a heap of stones, a bunch of reeds, indicate the road taken, and inform the following troop as to the direction. Smoke and fire signals are frequent; casting dust into the air is a sign of war; on the declaration of war a stick with emu feathers is sent. In West Australia, according to Eyre, a network of reeds serves for a messenger's credentials,—a reminiscence of the once more widely-developed knot-writing of which Kortüm has given an example from Cooktown. Rock drawings certainly come under the same head; not only animals, but men in all positions and attitudes are represented often in company with animals, which points to hunting or fishing. On the upper Glenelg is a chain of sandstone hills with many caverns; many of them are painted, mostly yellowish red. In one was found a drawing of a fish a yard long; on the slanting rock roof of another is painted on a black ground a white figure with yellow eyes and widely puffed-out, curly, red hair, with regular rows of white dots; the body is not finished, but is clad in a sort of closely-fitting coat. On one of the walls near by may be seen four heads, one above another, with thick, blue, frizzed-out hair, and further up on the roof an elliptical figure, on which there is a red kangaroo on a golden-yellow ground stripped with red, and divided by a broad, white, transverse band, together with two arrow heads, one of which with two bullets is flying towards the animal, the other away from it; hard by a man is depicted in rough outline dragging a red kangaroo. Several other, but inferior, pictures of animals and men are found

Message-sticks with picture-writing, from West Australia—one-third real size. (Berlin Museum.)

Printed by the Bibliographisches Institut, Leipzig.

SOWEK; A PILE-VILLAGE ON THE NORTH COAST OF NEW GUINEA.

(After Raffray.)

e by. Some of these paintings have, perhaps, a religious signification. Gesture finger-language is highly developed ; Kempe says that the Central Australian es of the Macdonnell range can express almost anything by the position or vement of the hands and fingers.

The fundamental features of the Australian language, as Friedrich Müller pointed out, are its polysyllabic formation, with syllables as a rule beginning n a consonant and ending with a vowel or liquid. Its affinity with the guages of Oceania still awaits evidence, so far as concerns the direction of vidual points of relation. The sounds *h*, *f*, *v*, *s*, *z* are said to be wholly lacking. inflection the suffix predominates. The numbers are singular, dual, plural. ides the six usual cases of nouns, Taplin distinguishes in the South Australian guage special inflections for the various senses of the ablative—in pronouns a causative. The accent is usually on the penultimate. The Australian s ellipses. Shortenings of words occur as well as extensions.

From the point of view of their intellectual value, we find in the Australian guages a great wealth of concrete, contrasted with a dearth of abstract terms. nerals seldom run beyond three or five ; anything further is expressed by pounds. Colour terms are defective ; but terms expressing relationship and rees of age are copious. The very indifference of the aborigines makes the dy of the Australian languages difficult. The casual way in which they ak, and the running of words into each other, the tendency to change the vowels, nterfere with fixity. New words are readily coined and foreign words adopted. re are in Australia numerous dialects which are fundamentally identical ; their tiplicity is more apparent than deep-reaching. Out of a number of synonyms, tribe will, by preference, use one to express a given meaning, another another; but n understands both terms. They have a special word to denote every minutest tion of the human body ; so that it is possible for different travellers to ask name for a particular member, and get those for different bits of it. Of the nber of the Australian languages and dialects we can only form an estimate. cording to Grey and Bleek there are, in the south, seven languages, all broken into a crowd of dialects, since every nomad tribe has its own. Certain guages have a wider distribution ; one is spoken from Moreton Bay to the wkesbury River, one from King George's Sound to Stark Bay and the coigne River, and far into the interior. The same language with dialectic ations is found round Adelaide. The natives of the Murray and Murrumbidgee understand those of King George's Sound, and similarly the Hunter and cquarie languages are radically akin. The languages of the north coast are numerous ; five are found in close proximity on Cape York, and four on the burg Peninsula. In the interior, according to Kempe, there is a general com-nity of language among the tribes within an area marked by 23° and 28° South tude, 132° and 134° East longitude, perhaps even further ; an area that is of 000 to 50,000 square miles.

The following table of the terms for parts of the human body shows the emblance between the languages of the south, south-west, and east. The rvening languages of the interior stand in the same relation to these as these one another, so that we have here a widespread similarity, while the North stralian languages ought possibly to be classed separately, or more nearly ed to those of New Guinea and the neighbouring islands.

Tribe and place of abode.	Hand.	Mouth.	Tongue.	Eye.
Narrinyeri	Mari	Tore	Tallanggi	Pili
Adelaide	Marra	Ta	Tadlanya	Mena
Port Lincoln	Marra	Narpata	Yarli	Mena
Swan River	Marhra	Dta	Dtallang	Mel
Blanchewater (S. Australia)	Murra	Tiya	Yarley	Minna
New South Wales, Sydney	Mutturra	...	Tullun	Ngaikung
Melbourne	Munung Myrongatha	Warongatha kundernir	Tallan	Myng
Echuca	Peean	Warroo	Saleng	Maa
Murundi on the Murray	Mannurukoo	Taako munno	Ngantudli	Korllo
Moreton Bay	Yamma	Tambur	Tallaun	Millo
Wimmera (Victoria)	Mannanyuk	Tyarbuk	Tyalli	Mirr
Wentworth	Muna mambunya	Yelka	Tarlina	Makie
Kamilaroi	Murra	...	Tulle	Mil
Dippil (Wide Bay)	Dwruin	Tunka	Dunnum	Mi

The less we can expect to find moral courage among the Australians, th more must we admire such traces of it as have not been weakened in thei struggle for a wretched existence. Examples are found among them of reall heroic determination and admirable *sangfroid;* suicide is unknown among thes barbarians. On the other hand, they show a high degree of self control, whic in deference to superstition or tradition, they inflict or allow to be inflicted o themselves. As regards warlike disposition, different tribes vary, but it is seldo that any one is wholly free from a state of war. Menaces from a distance, an attacks from ambush, belong to the nature of primitive warfare, but in no wa exclude the possibility of facing death when the moment comes. In Wes Australia, to the present day, the names of bold and fierce native leaders, wh fought Europeans for years together, fall with a threatening sound on the ears o colonists. They were dexterous at covering themselves with their shields, cleve at dodging spears, which they would sometimes catch and contemptuously throw back, aiming also only at such as covered themselves with their shields; doubtless from apprehension of blood feuds. Thus their fights often lasted for a long tim without any one being wounded; and, consequently, in fighting among themselves they were hardly what we should call brave. In their conflicts with European however, they showed real valour, and would often have succeeded had thei numbers been greater.

Singing and dancing being the favourite entertainment of Australians, it i curious that they are of all races the poorest in musical instruments. They have indeed, instruments for beating time, most frequently bamboos, which are struc with a stick, but even this is not common to all tribes. Most strike with on stick on another, it may be a throwing stick, holding it against their breast, bu also merely upon a skin stretched or only unrolled. Among the West Australian indeed, drums of very rough workmanship have been found, but among the Soutl Australians the only music is that afforded by beating skins and shields. Th Australians of Port Essington have a flute, probably got from the Malays, whic is blown through the nose in the Polynesian style. We may also mention th hand clapping with which they accompany their songs.

Dances are always accompanied by songs, the modes of which have in al

s something melancholy about them. In them all one notices the drop from gh pitched tone to a lower one. It is not possible sharply to distinguish king and singing. In times of emotion their speech passes imperceptibly song, the time being in accordance with the degree of their passion. Joy, r, and, says Grey, even hunger, move them to singing. The simple com- ons or contrasts of their songs are, it must be confessed, not without a certain ry, but, as in the adornment of their bodies, we trace here the simple and verished character of their fancy. Taplin has noted down a number of inyeri dance songs; they consist simply of the description of experiences of l, the chase, or war. All Australian songs, which Grey and others have rded, are equally primitive in structure and naïve in thought, with a tendency final rhyme.

A word should be added about the Corroboree, which is of the nature of a le dance with singing, or is modified into a propitiatory or magic dance, or is generally to celebrate events of the most various kinds. Generally the men dance e the women accompany with music and song. In Queensland it is a still more nn occasion than in South Australia, and the following customs are observed. men pass the day hidden in the thicket, when they have themselves rubbed fat by their wives in a manner such as the festive dance deserves, and paint nselves in a way to strike terror. When it is dark the women light a mighty begin to beat the drums, and sing a monotonous air. Thereupon the dancers ar with spears and firebrands in their hands, having their ankles bound d with bunches of gum-tree leaves. With hideous gestures they begin the e, which at last passes into a wild fantastic running and chasing in circles, ackwards and forwards. From time to time they utter a wild howl and strike spears violently together, or dash their torches upon the ground till the sparks ar and wide. These dances only take place at night, chiefly at the time of moon. The Corroboree often becomes indecent, particularly in the excep- al cases when the women share in the dances.

It is impossible to understand the Australians, apart from their extensive adism, to which all the natural qualities of the land contribute. At the om of it lies the deficiency of water, and the unequal distribution of food, ts, and animals, which partly results from this. The dry season causes a large ber of places otherwise favourable to habitation to be simply impossible. since, owing to the almost total absence of mountains to feed the springs, nanent drought is no less great than the time and amount of rainfall are incal- ble, there are few permanent oases, and the arrivals of damp monsoons, few far between as they are, are an insufficient check to nomadism. Vegetable -stuffs are often to be sought for at great distances, while animals avoid the regions almost as much as men. Thus the lack of mountains and large rs over the largest part of the country makes for migration, and if we further rd its isolated position, the conditions of Australia are as unfavourable as we conceive for the development of a settled population. Thus the nomad es of the west go about, the men with their weapons in front, the women with baggage and the children in the rear. Their burden is generally increased he clothing, since on the march it is pleasant to go naked. Every woman ies on her back a sack containing a flat stone for crushing eatable roots, pieces uartz for knives and spear heads, stones for axes, cakes of gum for mending

old weapons or preparing new ones, kangaroo sinews for thread, and needles
kangaroo bone, opossum hair to make girdles, pieces of kangaroo skin for polishin
the spears, sharp shells to serve as knives and axe heads, yellow and red och
for painting, a piece of bark for making bast, ropes, girdles, ornaments of sort
tinder for making fire, some fat and a piece of quartz revered as a relic, havin
been extracted by the doctor from a sick man as the seat of his sickness, an
besides these, roots or fruits collected on the road. Between back and sack the
carry a store of undressed hides, and in their hand a staff 5 or 6 feet in length,
a firebrand; and often are burdened in addition with their husband's spears. N
more than 16 or 18 miles is, as a rule, done on one of these marches; and
indications of game appear on the way, the men go off in pursuit, sending th
women and children under the escort of the elder men direct to the cam
previously fixed upon. The start is not made very early, and as a rule som
urgency on the part of the more active is needed to put an end to the chatterin
and dawdling.

The length of stay depends on the quantity of food, water, or other co
veniences; but even so they seldom remain in one place longer than a fortnigh
owing to the pressure exerted by other groups. Consequently changes of abo
are usually more frequent in summer than in winter. The huts often rema
when the camp is deserted, which explains the comparative frequency with whic
deserted camps appear in narratives. Meetings for the purpose of council
festivity are another cause of tribal wanderings. Many ceremonies require th
co-operation of several allied tribes. Yet, again, fear of spots where a death ha
occurred, and other forms of superstition, are reasons for migration. Considerin
the number of children in a family usual in these days, over-population can seldo
be regarded as a motive. Yet we must remember that if other conditio
prevailed in this respect before the contact with Europeans, this must, by reducin
the amount of available food, have created rapid shifting in the possibilities
obtaining subsistence.

The number of Australians has always been small; to all appearance larg
in the north and north-east than in the south and west. Since the invasion
the European, it has decreased year by year—one of the darkest spots in mode
history, and not only in that of Australia. The European immigration has bee
of much greater harm than benefit to the aborigines; their land has been annexe
their game in great measure extirpated; the strangers have destroyed the ree
of which they built their houses, the grass on which they slept; the skins where
they made clothes, the bark which served to build their canoes, are hardly to b
found any longer. We must not therefore, from their present debased conditio
draw conclusions as to what they were originally; nor can we hope to find amon
their enervated and widely scattered tribes the better qualities which they on
possessed. The Bushmen of Africa are perhaps the only race whom the whi
men have treated with so little consideration; and when the Australian venture
to resent, by force of arms, infringement of their valued rights of property, th
were abused for being quarrelsome. With thoughtless stupidity, England ma
Australia a penal colony, and recognised no right on the part of the natives
their own land. Nowhere was the colonial policy of *laissez-aller* and *laissez-fai*
so early or so decisively condemned as here; but it was in vain. The histo
of the Australian colonies recounts wanton slaughters *en masse* of defencele

ives—veritable man hunts, accompanied by licentiousness with its soul and ly-destroying consequences, the importation of spirits, and so forth. The ult has been a steady decrease in the number of aborigines. No trustworthy mate of the total number of the Australians exists. Before the European nigration, we may put them with equal justice at one or at two hundred usand. In 1851, according to an estimate resting in some respects on a firmer is, it was attempted to fix the number at 55,000. The decrease, though versal, was not everywhere so great as in Victoria, where between 1836 and 81 the number fell from some 5000 to 770. The census of 1876 gives a al of 3953 for the colony of South Australia, of whom 1000 were living in led districts; if we take the total in 1842 at 12,000, they would have inished to a third. In districts which we can more easily check, there also evidences of decrease. In 1877, the Narrinyeri of South Australia nbered 613, and among them Taplin noted for the eight years 1869-1877, births and 162 deaths; though he tries to mitigate the significance of these ures by pointing out that people were brought there to die. Yet even so the portion is assuredly not encouraging. Among the natives who live more note from the Europeans, we must also not overlook the prevalence of infanticide. If we inquire as to the causes of decrease which continue to operate, we may the southern parts practically omit war. Although good relations with the ernment were early established in South Australia, the tribes had in 1878 so ndled since the appointment of the first governor in 1836, that it was found icult to get together a small collection of their weapons. As soon as the ne government recognised the wretched way in which the natives were dying sickness, and its own responsibility for this, it took various preventive steps. ween 1821 and 1842 £80,000 was spent in the improvement and protection the aborigines; and almost every British Colonial Minister has considered it duty to call upon the Australian government to look after them. Only this e, even if it could be of much avail under the prevailing system, came too late. ools for natives were no doubt founded in Adelaide and other places, and rally supported; but in a few decades these schools became superfluous, for Adelaide tribe died out, and its kindred as well. On the other hand, the unted police has been constituted the chief organ of government in regard to Blacks, and the work of the Protector of the Aborigines has become incon- erable. The very discouraging report of the sub-protector in Adelaide for 75 calls attention to the fact that the smallest birth-rate and the largest death- e are always found among the settled tribes. They have been especially thinned consumption, measles, and small-pox.

§ 12. DRESS, WEAPONS, AND OTHER BELONGINGS OF THE AUSTRALIANS

hing—Ornament—Painting—Tattooing—Weapons—Throwing-sticks and boomerangs—Huts—Villages—Canoes—Fishing—Hunting—Preparation of food—Food-stuffs—Cannibalism—Dearth of water—Traces of agriculture—Implements and manual skill—Trade.

TLE is to be said, so far as matter goes, about the clothing of the Australians; the fact that it is little, or even negative, is in this case interesting, as it shows

how inadequately they acted with a view to their own good. In Central and South Australia the climate is singularly harsh and changeable; yet we find Australians totally naked, or wearing only a body-ring, not merely in the tropical north, but also in the west and south. Even the poorest and most wretched do not forget to paint their bodies, justifying Martin's remark about the West Australians: "What they wear is ornament rather than clothing."

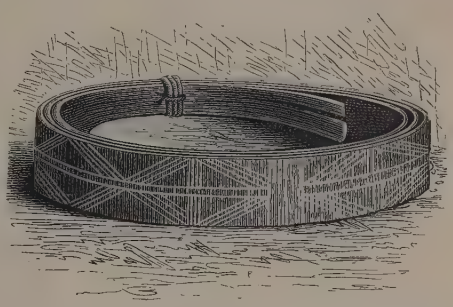
The most universal article of clothing among male Australians is a girdle of plaited grass, bast, or hair, whether of man or some animal. In West Australia this is often some hundreds of yards in length, reaching as high as the navel. In many cases it is purely ornamental, but in the north it serves to carry boomerang, axe, and the like. In Southern Australia the men used to wear round their bodies a ring made of their own hair, adorned when possible with emu feathers, drawing it tight, so that it often served as a "soldier's luncheon."

Woman's apron of emu feathers. (Berlin Museum.)

Probably, as in Melanesia and Africa, it also had some hygienic and religious meaning. Besides this, the cloak of opossum's or dog's skin is widely used. In the north it is rare, becoming more frequent south of the Arrowsmith river, but it is by no means universal, even on the less genial west and south coasts. In some districts the skins are very carefully prepared, in West Australia the lighter skins of the kangaroo doe are selected. More general is the kangaroo skin worn like a sack, in which the women wrap their sucking children; it is either knotted round the neck or fastened round the forehead with a cord of rushes. In the pre-European time no foot or head coverings were possessed by the Australians.

The universal adornment is painting, by preference with red, white, and black colours with which we frequently meet on shields and other articles. There are certain distinctions of age and sex, but these are not found throughout. Face, body, and the chief part of the limbs are covered with this decoration, consisting on the north-west coast in a vigorous rubbing of the abdomen with red ochre, sometimes in similar covering of the face, sometimes in a combination, often tasteful, of dots and lines. The Australians of the south-east used to paint their bodies in regular circles, squares, and crosses; some have been disposed to see

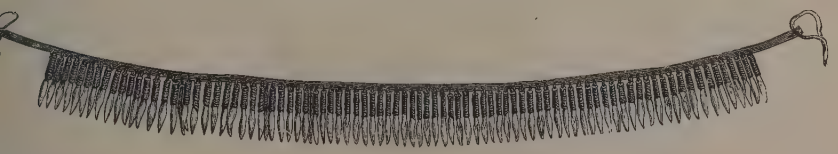
ecially in the red a kind of sacred colour, since corpses are painted with it, it is the finery of festive dances; while among some tribes is only per-ted to the elder men, youths powdering their hair with red earth. At times y twist up their hair with a string, paint the whole thing red, and decorate it her with emu and cockatoo feathers, the tail of a dog, and such like. White mong some tribes in the north and west the war colour, in the south it is the urning colour; they also paint and der their faces with white in the ces. In the west and north black mourning. They are especially l of wearing neck ornaments of her-of-pearl, teeth, crabs' claws, lets of vegetable fibre, necklaces le of bits of reed or straw tied to ord. The elder men, however, seem lespise ornament.



Wooden belt, said to be Australian, but perhaps from the New Hebrides—one-fourth real size. (Berlin Museum.)

The form of tattooing which con-s in cicatrisation of the skin is tted only by some individual tribes. a rule all the elder men of a tribe thus scarred, while in certain tribes operation has a place among the ceremonies of admission to the class of ers. The process consists in making a series of long oblique scars in the region the breast, also upon the back and shoulders, seldom on the body below the st, never on the face. The operation is performed with bits of shell or glass, repeated before the wounds are completely healed, until strong cicatrices have eloped.

Weapons are essentially the same throughout Australia,—spear, shield,

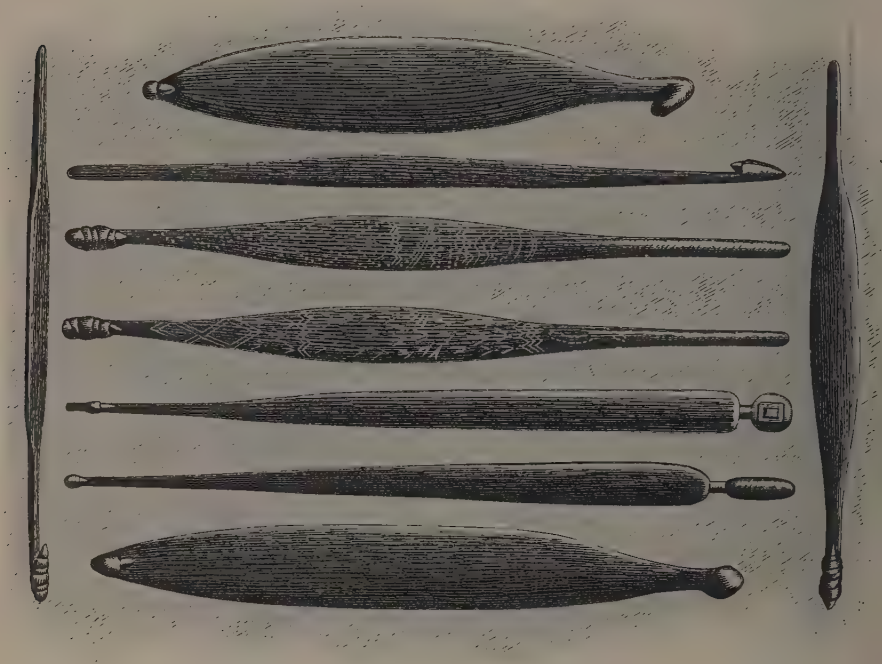


Necklace of kangaroo teeth, probably from West Victoria—one-sixth real size. (Berlin Museum.)

merang, axe, and wooden club. The natives of Cape York, and perhaps he other tribes of the extreme north, are said to carry bows and arrows; ainly arrows with bone points are used by the inhabitants of Prince of les Island, but seem from the nature of their ornament to belong to the ain of Melanesian forms. The weapons are in general simple and coarse, hat herein the Australians are far inferior to their Polynesian and Malayan ghbours. Australian weapons are of imperfect finish and poor in ornament, does this arise only from the lack of iron and other metals, which is red by the far more artistic Polynesians. They are much nearer to the th Africans, who also, though possessing iron, are distinguised by the remely careless fashion of their weapons. The chief material everywhere

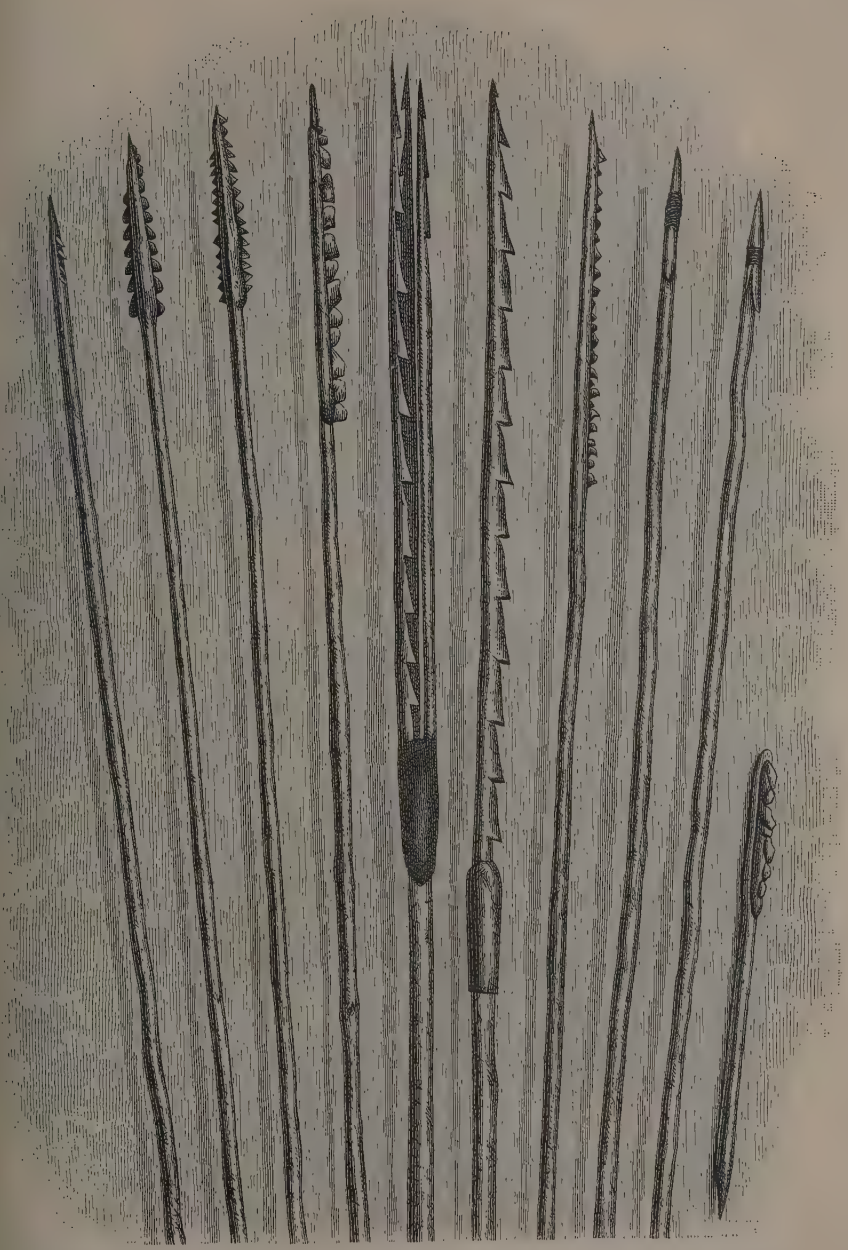
is wood ; stone and bone are less employed than the lack of metals would lea one to expect. Finely-polished stone weapons are never to be found i Australia, while cleverly-chipped flint-heads and blades are rare. In som districts the natives point their spears with flint and other stones ; even spea heads of rock crystal are recorded in Queensland, and of opal in North-We Australia. They are also provided with barbs ; the setting of them in wooden shaft by means of string and gum is also characteristic of Australia weapons.

First and foremost come the spears. For these, thin stems of eucalyptus si



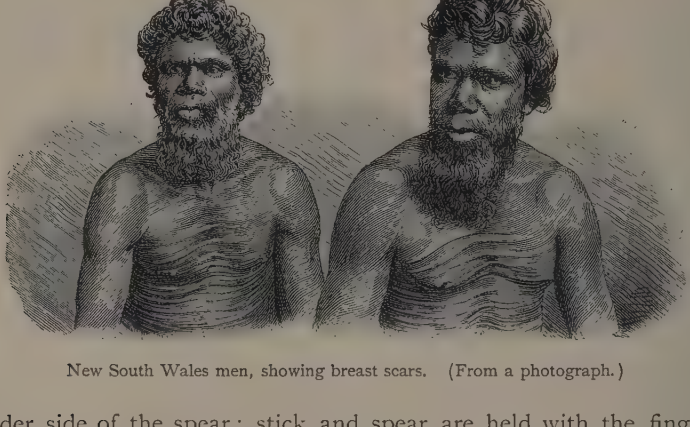
Wommeras or throwing-sticks of the Australians—one-fifth real size. (Berlin Museum and British Museum.)

feet and more in length are chosen, which are straightened in the fire, slightl charred, and hardened at the end. This is the simplest form ; the first improve ment consists in making a hole for throwing with the help of a throwing-stick Besides this the spear-bearer generally has in his sheaf some spears provided wit barbs ; a two-pointed piece of wood is attached by sinews to the spear point i such a way that its lower end projects barb-wise. These barbs are carried loos in a pouch until the hunting-ground is reached. Their use in war is prohibite among the Australians in Port Lincoln. A shorter, thicker spear, as a rule no more than a yard and a half long, is used for spearing fish. In North Australi a short light javelin for small game occurs. All the other spears, however, ar hurled with a throwing-stick called *wommera* or *wumera*, in South Australi also *midla* ; this is from 20 to 30 inches in length, smaller in the south than i the north, consisting in a flat piece of hard wood furnished at one end with



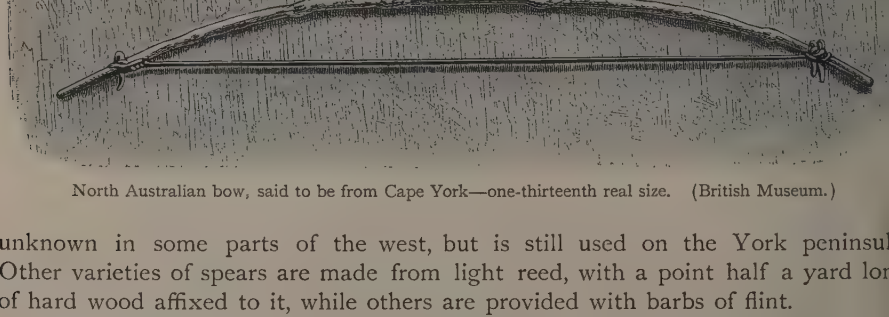
Wooden spears, mostly from North Australia ; the second and third from the right are fish-spears — one-fifth real size. (British Museum and Berlin Museum).

hook, while at the other end is fastened a lump of resin and a piece of quartz, a tuft of opossum's hair, so that it may not slip out of the hand in the act throwing. In the royal museum at Leyden there is a cylindrical throwing-stic probably from North Australia, ornamented at the handle end with a bunch fringes made of human hair, the hook at the other end being fastened with t balsam of *Xanthorrhœa*. The hook, usually a kangaroo tooth, is laid in the ho



New South Wales men, showing breast scars. (From a photograph.)

on the under side of the spear; stick and spear are held with the fingers of t right hand, and the weapon thrown at the level of the eye. The throwing-stic gives the spear its direction, and by its action as a lever increases the force of t throw. For convenience the inner side is slightly concave, the outer conve both are frequently ornamented with oblique scratches. The throwing-stick



North Australian bow, said to be from Cape York—one-thirteenth real size. (British Museum.)

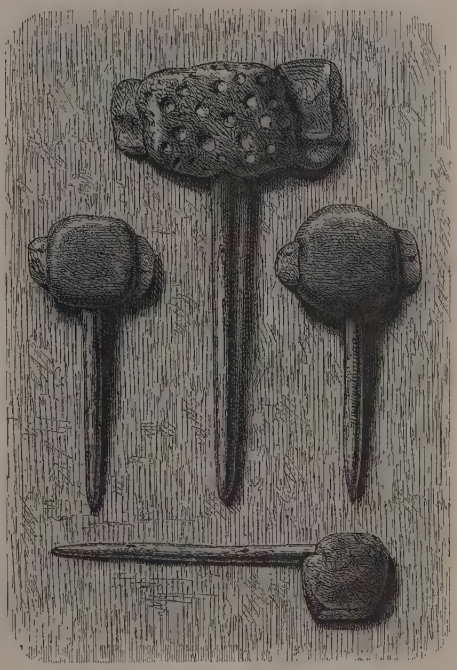
unknown in some parts of the west, but is still used on the York peninsul Other varieties of spears are made from light reed, with a point half a yard lon of hard wood affixed to it, while others are provided with barbs of flint.

The Australian club or *waddy* is usually a roughly-wrought cudgel, mo nearly akin to the South African *kirri*. Its thicker end may be flattened into four-sided shape, and set with spikes like a "morning star." With some sligl modifications these appear as missile-clubs; they strike their object with th handle whirling round the knob, and so form the transition to the boomeran To the same class belong the *widdis* or *wirris* of the South Australians, made fro

ucalyptus stems half a yard in length and about the thickness of a finger, with nots on one end, and at the other slightly curved in the fashion of a sabre. They re thrown at small animals, or used at the beginning of a fight before people take the spear. The throwing-stick and missile-club or *nulla* go, as a rule, together.

A peculiar weapon is the boomerang, called also *wagno*, *keili*, and *bomeran*. The Australians make it from boughs of the *acacia pendula*, or from some other tree of similar growth, giving to the green wood the desired curvature in the fire. As is well known, the boomerang when thrown travels forward for some distance, and returns in an ellipse to within a few paces of the thrower. If it strikes its mark it falls to the ground. A skilled thrower can give the weapon almost any direction he likes; to increase the force of the stroke it is hurled so as to touch the ground with its flat side, and rise ricochetting to a considerable height. The natives are capable of knocking over birds or small mammals at 200 paces; as a weapon of war it is dangerous, from the impossibility of judging at the moment when it is seen in the air how it will go or where it will come down. The most expert throwers of the boomerang are considered to be the tribes on the Macleay River, and those on the Shoal River in New South Wales. The genuine boomerang must be bent almost at a right angle, with something of a twist in the surface, but it occurs in various forms. In South Australia it is long, thin, and heavy, nd is only thrown at fish. Here it is called *wadna*, and is closely akin to the *iddi*. For warlike purposes it is larger and less curved than for the chase of irds or for play. It is chiefly found in the east; there are various specimens f it in our museums simply ornamented with scratched lines and animal gures. In the extreme north the boomerang is not in use, in the south-west is little more than a toy. In the bush the Queenslanders use their large ooden sword, a piece of flat wood which has sharp pieces of stone set with gum a groove.

Arrow-head from New Guinea, Torres Straits—four-fifths real size. (Dresden Ethnographical Museum.)



Stone axes; the three above from North Australia, the lower from Queensland or Victoria—one-sixth real size. (Berlin Museum.)

Both in the south and the north the stone axe or *pareh* was once equally

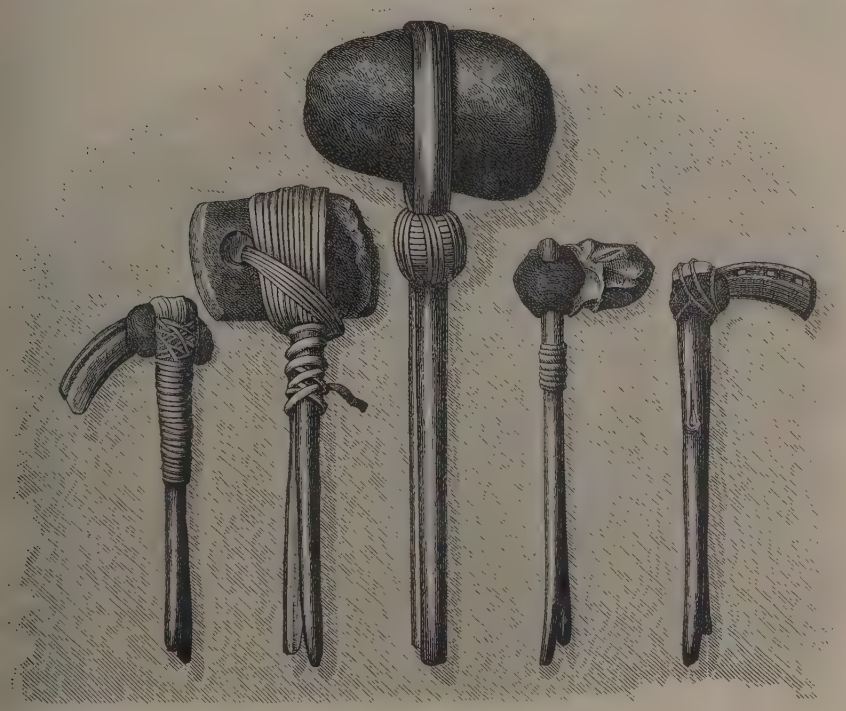
common. It consisted of a stick to which a stone having either a groov ground or a hole bored in it was attached by means of gum, sinew, or bast. Wit

Boomerangs and boomerang-shaped clubs. The stick in the middle is of uncertain use—one-tenth real size. (British Museum and Berlin Museum.)

this incisions were made in the smooth and strong stems of the trees, which t natives then climbed with the help of a cord looped round the stem. Polish

xes are for the most part not found, but a certain amount of smoothing was iven by rubbing two stone blades together in water. The shields, as shown in ne coloured plate, serve rather to protect the hand and to ward off blows than to over the body. Their thickness is much greater than their breadth, and they more-ver have an edge bearing a striking resemblance to the parrying shields used on he Upper Nile. The monotonous Australian ornament of oblique and serpentine nes is a characteristic feature of them. The best shields are found in the north, broader form occurs in Northern Queensland; on King George's Sound shields re not known at all.

The transition from weapon to implement is formed by the digging-stick



Axes of stone or horse-shoe iron from Queensland—one-fifth real size. (British Museum.)

vhich the South Australians call *kiatta*, a baton about a yard and a half long and is thick as the fist. It forms the inseparable companion of the women, who dig ip roots with its thicker end sharpened and hardened in the fire. In the west a vooden implement like a meat-tray is used as spade, basket, and dish alike.

Considering the nomadic ways of the Australians, their hut-building can only oe imperfect, and for a similar reason it reaches a higher level in the north than in he south. The tribes on the east coast of Spencer Gulf in summer merely stick few wretched boughs in the ground as a protection from the wind. In winter hey weave huts of a niche shape and cover them at times with bark; the fire ourns in front of the hut. Just as the family, when encamping after its wandering, ights a fire the first thing, and does not build its hut till this has been done, so as

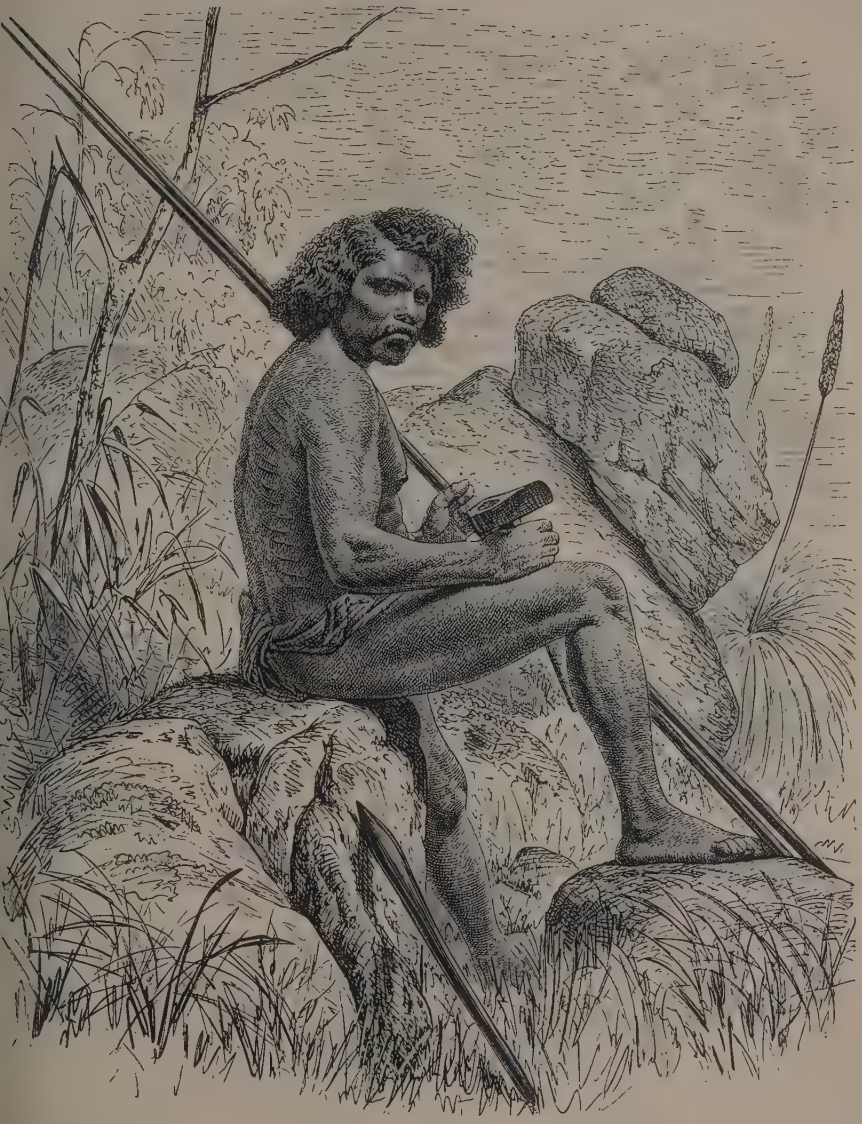
a general rule the fire is the true centre of family life and business. Thus th South Australians use the word *wurlie* in the first place for fire, and then in a furthe sense for hut or habitation, that is fire-place. These weather-screens are found o Roebuck Bay, where also frequently a hole is dug in the earth large enough t hold two men and covered with a screen placed slanting. The worst dwelling were those of the aborigines of New South Wales, who put up an insufficient wa of woven work, and that only in wet and cold weather. In pre-European time scarcely any country contained so many cave dwellers as Australi On the east coast of Vincent Gulf, however, they have stockade houses, and in places where the natives are wont to make a longe stay on account of periodical abundance of provisions, permaner huts are erected. In Central Australia, particularly, the grea number of these, together with the quantity of foot-tracks, give th district the appearance of being more inhabited than it is. I Eastern and Central Australia their form is that of a pointed roo resting on the ground, some four yards long by two wide and ver low, woven of boughs covered with eucalyptus bark and open o one side. In West Australia they have an arched opening abou a yard high, and are so narrow that a man cannot lie at full lengt in them. This kind of hut, built hastily indeed but still with som stability, is used in the interior as well as on the Gulf of Carpen taria, on Hanover Bay, and in some other places. They are no very roomy; three persons crouching close together can scarcel find place in them. Similar to these are the huts in Endraghtslan where they also lived in caves. The huts stand singly or in littl villages of fifteen and more together, where any natural protectio is found; on sand-hills or hillocks or in the bush.

Stone club, said to be Australian, possibly from New Britain. (British Museum.)

In North and North-west Australia we meet with something lik Papuan influence in the size and careful construction of the hut Here, where the houses are as high as a man, large enough to hol ten persons, built of stakes daubed with clay, the village assume quite a different position, losing the casual appearance and acquirin stability, organisation, and fixity. On Rockingham Bay four fire places stood in the middle of the village and at one end a hut o extra size, six yards long, four high, and two wide, in which wer kept the weapons, a curious red-painted shield, swords, fishing-line etc. It was thus a village hall of the Melanesian kind.

The navigation of the Australian peoples is an indication of their isolated an backward position. A great part of the coast tribes know nothing about it. O the north-west coast there are only wretched rafts of mangrove branches. Wher there are canoes, that is in the whole southern half of Australia, they are ver imperfect bark canoes with paddles half a yard long. Yet even with these the are bold and hardy enough to sail several miles out to sea. Near Port Essingto the indigenous canoe is of bark. The bark of the eucalyptus is taken off in broa and long strips, the strips are laid on the ground, and the sides as well as the end which roll up as they dry, are brought into the desired shape by binding togethe with string and weighting with stones. When newly made they are light an handy, but very soon begin to decay. In northern New South Wales and furthe

orth there are canoes made of tree stems hollowed with fire. In the York eninsula, Cook saw boats made of this kind, 13 feet long, with outrigger and long



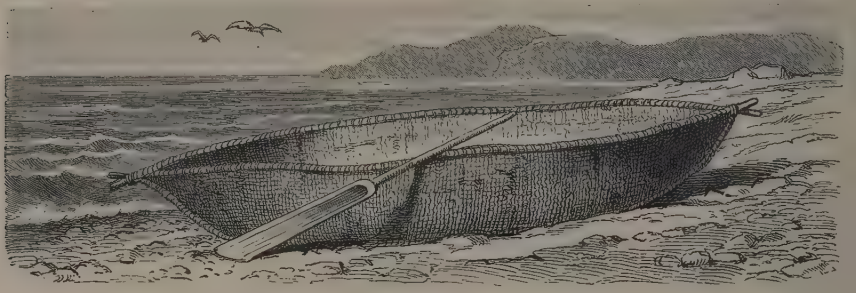
North Australian with spears, axe, and club. (From a photograph.)

at paddles; some still longer, even up to 33 feet with double outriggers, are btained on the north-west coast by barter for tortoise-shell and trepang. Nothing known of the Australians undertaking long journeys in their vessels. Most of ne islands, on the south and east coasts, even those lying as near as Kangaroo

Island, are uninhabited. The bark canoe, which is the typical Australian craft, only adapted for fishing purposes, though perhaps the custom of carrying fire these narrow crank boats points to occasionally more protracted absences fro the land.

Except in the north, where Malay influence prevails, fishing with hooks w originally unknown to the Australians, but they knew the fish spear 4 yards lor with its bone point, many having also nets made of grass or the roots of rushe The women chew the material until it becomes supple, and the men weave, using stick for needle. In these nets they catch not only fish but also water-fowl, yet a the coast tribes do not possess nets. The natives of Port Lincoln used to fish shallow water with the hand or with spreading twigs as well as with spears. Th fish were dried and preserved packed in bark ; shell-fish, both salt and fresh wate were eaten in quantities, but never raw. On the coast of North Australia a found veritable kitchen-middens.

All mammals are hunted, from the kangaroo to the mouse ; birds from the em

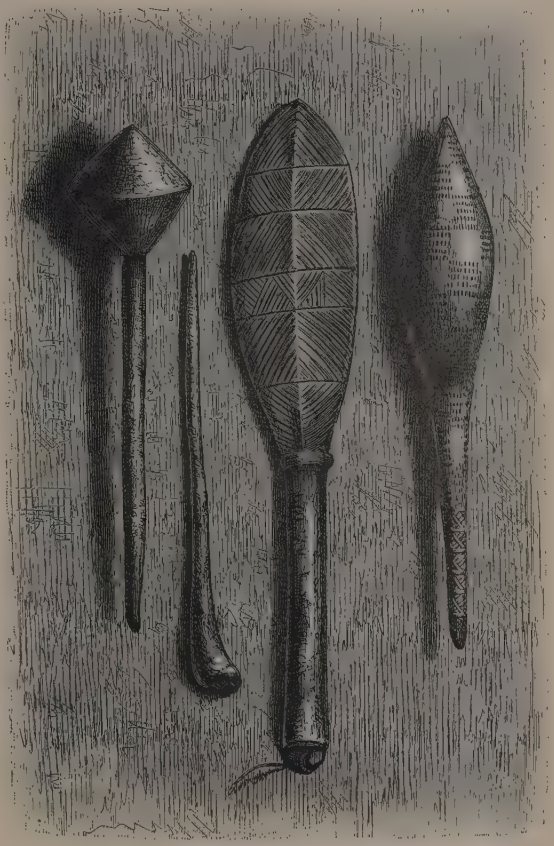


Queensland canoe. (Godeffroy Collection, Leipzig.)

to the smallest wren ; snakes too and other reptiles, the process being to sta them to within spear or boomerang throw ; the attention of the animal is distracte by making a noise in the other direction. Larger animals are also driven, espec ally the kangaroo, in winter when the soft ground is tiring to them, fire beir employed to drive the animal towards the hunters. Animals living in holes a smoked out ; signs are used to avoid making a noise. A spear with a bunch feathers stuck upright in the ground indicates concealed game ; the index fing moved with a jerking motion means kangaroo ; three fingers outstretched, with th middle one depressed, emu ; outstretched thumbs, opossum ; the whole hand edg downwards, fish. They prefer not to hunt by moonlight. The dogs are not much use, for they can neither track nor retrieve, nor can they follow emu ar kangaroo. The hunters therefore try to reinforce themselves with old tradition charms, which they mutter quickly when starting in chase of an animal ; on grown-up men know these. To them also are confided the rules, often cast proverbial form, which concern the appointment and use made of the prey whe captured. Among the Port Lincoln tribes full-grown male animals are eaten b men, female by women, young ones by the young people ; but all alike ma partake of the common kangaroo rat. The wallaby and the two kinds of bandico may not be eaten by women or young people ; in the case of the former they a prejudicial to the regularity of their functions, while in the latter they make th

eard grow of a light colour instead of the favourite black. On the other hand, zards promote maturity in girls and snakes make women fruitful. Like so many ther ancestral customs, these have in course of time lost much of their force. The ogs, which originally were only dingoes, but now are mostly crossed with European reeds, are well treated, the young ones being in case of necessity suckled by the omen ; they are also used for eating. Since Australia was never so rich in game s North America, and the weapons of the Australians are poor, the chase demands xertion and privation, and the cause of frequent hanges of place which are rejudicial to civilization ; it most laborious, and at the ame time most necessary, the hot and dry season, hen the sources of vege- able nourishment are scanty.

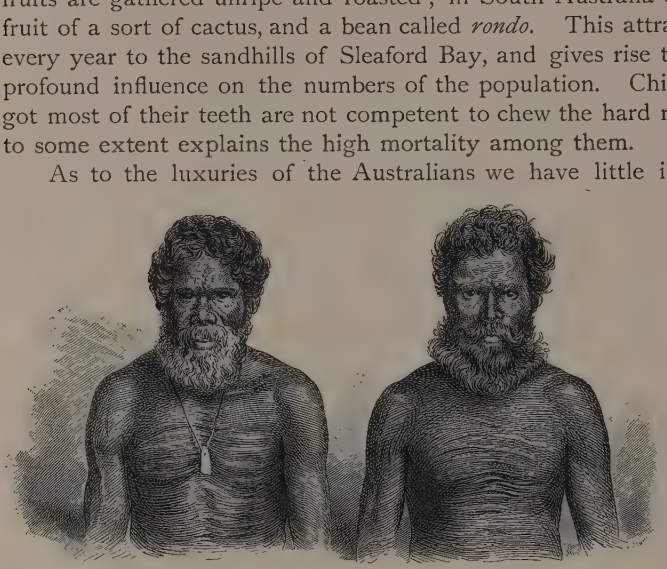
The Australians much refer an animal diet, but re compelled to content hemselves in great measure ith a vegetable one. Being ntirely without pottery, they ave only limited facilities or preparing food. Boiling ver a fire is unknown : here vessels for this pur- ose are found, as in the xtreme north, they are not ndigenous. Pots and cups ade of shells, of skulls ade tight with gum, of ortoise-shells, will not stand he fire ; nor will bottles ade from the skins of small nimals. Meat is dressed y broiling over an open re or on embers ; and the Polynesian fashion of steam- ng in holes dug in the round is also known. On he Upper Glenelg these holes were circular, and lined with stone ; they were the ommon property of the tribe. Fruits and roots were eaten after the meat as lessert. The Australians are fond of honey from the *Banksia* and *Xanthorrhœa ;* lso of the manna-like gum of a species of *Eucalyptus*, called "peppermint gum," rom which they make a sweet drink by adding water. Other kinds of eucalyptus nd various plants also yield edible gums. The Australians do not, however, eat verything indiscriminately, but reject several things eaten by Europeans, as certain ish, crustaceans, or fungi ; yet they feel no disgust at such things as maggots or



Striking and throwing clubs —one-eighth real size.
(Berlin Museum.)

rotten eggs, or even the contents of the intestines of animals taken in hunting. Even among vegetables they use as articles of diet some that we reject for offensive taste or small nutritious value. Among the Australians of Port Lincoln, Schürmann saw only one root eaten raw; all others were roasted in the ashes and peeled. Many fruits are gathered unripe and roasted; in South Australia especially *karkalla*, the fruit of a sort of cactus, and a bean called *rondo*. This attracts a crowd of visitors every year to the sandhills of Sleaford Bay, and gives rise to fights. Food has a profound influence on the numbers of the population. Children before they have got most of their teeth are not competent to chew the hard roots and berries, which to some extent explains the high mortality among them.

As to the luxuries of the Australians we have little information. In many places no intoxicating drink was found in use when Europeans first came. The only definite report of anything of the kind is that given by Brain in regard to the mead drunk by the natives of New South Wales. It is not certain whether they were acquainted with tobacco before the arrival of Europeans. The mode of smoking in the Cape York district is, however, peculiar enough. A piece of bamboo 2 or 3 feet long, and as thick as the arm, is filled with tobacco smoke and every member of the company takes a whiff in turn; which reminds us of the practice mentioned above, as obtaining in New Guinea. There is no doubt that the aborigines used parts of narcotic plants, whether for chewing, smoking or snuffing, but with the exception of an *Eugenia*, it is not known what these were. Schomburgh in 1881 first described a plant—*Duboisia pituri*—the dried leaves of which, either smoked or chewed, have properties nearly akin to those of opium and tobacco, and in their effect stand midway between the two. This grows in the interior, and forms an important article of trade there. Some tribes are acquainted with powerful vegetable poison, but the Narrinyeri, knowing of none such, use the products of putrefaction to poison their weapons.

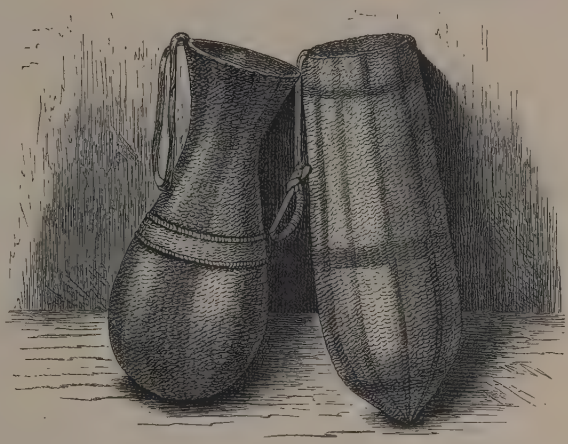


New South Wales men, showing breast-scars. (From a photograph.)

Cannibalism is practised in Australia from various motives, but is not universal, and, indeed, is abhorred by some tribes. A chief ground alleged by the Narrinyeri of the Lower Murray to account for their hatred of the Merkani[1] was that they stole fat people to eat them. A man who had a fat wife never liked to let her go alone. In the west districts, where Europeans live, cannibalism has ceased; but even here cases of it still occur in times when food is scarce. In Central Australia it exists in its most comprehensive form, the pretext being deficiency of game. In Queensland, if the Bunya-bunya tree (*Araucaria bidwillii* of Hooker) bears an abundance of its floury nuts, the supply is more than the

[1] ["Merkani" appears to be the name applied by the Narrinyeri to all tribes outside their own.]

pe can consume, and strangers are permitted to share in the feast. When the tive visitors have lived for some time exclusively on this vegetable diet, they said to feel an irresistible craving for meat, and since they dare not kill any the local game, they are forced to slaughter one of their own number. But a re frequent cause of cannibalism is war. It is usual to eat the heart and the ney-fat of the slain, with a view to appropriating the enemy's courage. With imilar object, in the north, you take your foe's head along with you, and eat his s and the meat off his cheeks, after which the skull is tossed about in a frenzied nce, and finally set up on a stake. The practice among the Australians about kes. Albert and Alex-dra of using human lls as drinking-cups, rders on anthropophagy. former times every man in those parts had essel of the kind, hol-ed out, smoked, and pared by herself. The gicians pretend that y require to eat human h. In Queensland the n, having previously nted themselves white, our certain portions of body of a young man or a girl, as a proof relationship or attach-nt. Among the Central Australian tribes bodies are devoured to avoid the essity of further mourning. Among the Dieyeri a trial is first held at the ve, to ascertain who caused the death, after which the flesh is taken off the es, distributed, and eaten. This, however, is done according to rule; only thers may eat their children, not fathers. Still less may sons eat their parents.



Australian bushels of woven grass—one-sixth real size. (British Museum.)

Water, one of the most precious possessions in this land of drought, is, next to men, the most frequent cause of quarrels. The art of spring-finding is highly eloped. As a substitute for it, covering the belly with mud is in repute as a st-quenching and cooling process. In accounts of travels in West Australia, hear also of wells being sunk.

One can hardly speak of agriculture among the Australians, only traces of it e been observed. Yams were found in cultivation on the Prince of Wales and, in the north-west, and in the interior. Grey, in his journey from Gantheaume y to the Hutt River, came across a stretch of fertile ground more than 3 miles breadth, representing a single plantation of *warran* (*dioscorea*), literally honey-nbed with holes for planting. The prohibition to dig up seed-bearing food-nts after the flowering is merely the necessary result of ever-imminent famine. is a long step from this to their preservation and increase by cultivation.

The life of the Australian native afforded little room for industrial activity, ugh the varying distribution of the raw materials gave occasion here and there a division of labour. Game abounded about Adelaide, and the tribes of that

part were, accordingly, more expert in the manufacture of rugs and cloaks out o furs than were those of Port Lincoln. Hereditary dexterity contributed to thi Within the limits of a single tribe, individual families work at things for whic the raw material is accessible, or other facilities exist, some at mats, some a weapons, and then barter their manufactures. But most things are made whe and where they are wanted. In individual districts the productions are scant and of little variety, and the districts show uncommonly few local peculiaritie Primitive industries like pottery, polishing stone weapons, everything connecte with agriculture and the breeding of cattle, are altogether absent in Australia.

Opossum rug ; one-eighth real size. (Berlin Museum.)

The process of preparing skins consists of stretching them out, scraping an rubbing. The skins are sewn together with the tail sinews of the kangaroo, th holes being first pierced with a sharp-pointed bone. As the skins are not tanne the natives are careful to preserve their cloaks from damp. The art of weavin comes chiefly into play for making nets ; and in this the Australians use a loo similar to that found in simple fishing-nets with us. In matting they do nothin remarkable ; but their basket-work is better, sometimes even excellent.

The passion for ornament has never developed in Australia into such a inducement to trade as among the Africans, with their love of beads and cowrie Attempts to start a trade in beads with Australians did not result favourably and the lack of native products for exchange contributed to this. The aborigine had no knowledge how to get at gold, and the trader could obtain slaves in plent

rer home; so that the chief enticements to foreign commerce were absent. e small attraction which Australia offered to foreigners was certainly a main son for the oblivion into which the discoveries of the fifteenth and sixteenth turies fell, as well as for the backward state of the whole country ethnographic-. In the interior some tribes carry on an insignificant trade with each other, in the north the natives, employing intervening tribes as intermediaries, barter re for shields and other objects. The most important articles of local manu-ure that can be named are weapons; trade is also done in skins for clothing, in mats. In West Australia a word exists to denote a market or fair.

§ 13. THE FAMILY AND SOCIETY IN AUSTRALIA

n—Infanticide—Bringing up and naming of children—Names of the family groups—*Kobong*—Exogamy—System of relationship—Inheritance—Position of the woman—Morality—Wedlock—Marriage by capture—A scene from the daily life of the South Australians—Funeral ceremonies—Native inquests—Tombs and modes of burial—Weakness of the political organisation—Rights of property in land—Boundaries—Chief-ship—Family groups—Questions of law—Blood vengeance—Deliberative assemblies—Intercourse between tribes—State of war—*Ngiampe;* Initiation of youths—*Narembe;* Initiation of girls.

HEN a woman feels that her time is approaching she retires from the camp h some female companions, and all male persons have to keep their distance n her. After the birth the father is summoned, and at once sets to work to der service to his wife by lighting a fire, fetching water, and in other similar ys. A barbarous neglect of the mother and the new-born child on the part the husband is by no means the rule; nor can we refuse either to mothers to fathers the credit of tender affection towards their children. If these die mothers not unfrequently carry the bodies till they decompose, and afterwards ry the bones with them in the sack on which they sleep. Fathers may be n carefully leading their tired children by the hand or carrying them. A ther may sometimes have allowed the child which she carried wrapt up in a ce of bark to starve, to die of cold, or to burn itself in the fire; the great ant mortality may offer strong evidence of mistakes in the bringing up and rding of the little ones, yet the fact that the period of suckling is extended r two or three years shows plainly the natural degree of maternal love.

Infanticide was and is very widespread, and in any case the number of births out of all proportion to that of the children who survive. Usually the new-n child is killed immediately after birth by thrusting a stick through the ears o the skull, after which the little corpse is burnt in the fire, but cases of killing throttling, or by a blow from a club, also occur. In 1860, one-third of all the ldren born among the Narrinyeri were killed, every child that was born before next elder could walk, all mis-shapen children, one or both of a pair of twins, least half the children of white fathers owing to jealousy, female children, and lly, children of marriages entered into unwillingly. But if it is once decided t a child is to be kept, the patience with which it is tended is unbounded. In er to secure its thriving, superstition enjoins that the navel string be placed nd its neck, it is never bathed, but rubbed down with dry sand. As soon as oy can walk, his father takes him with him on hunting and fishing expeditions,

instructs him in all accomplishments, and teaches him the traditions. The onl child's play for the boys is weapon play, especially with the spear. From h fourteenth or fifteenth year the youth takes part in war and other affrays, and a

New South Wales women and child. (From a photograph.)

sixteen or eighteen, when his beard begins to grow, he is admitted into th circle of the men.

The child receives a name as soon as it can walk, but new names are given o special occasions, as at the attainment of manhood. In naming the child it i

tomary to take account of his place among his brothers and sisters, and of his hplace. The father and mother also assume new names from the birth of child to that of another. The origin of the female dual names is unknown.

In consequence of the custom of never pronouncing the name of a deceased son, taken together with that of borrowing names from places, local peculiarities, mals, and events, a death is often followed by a change not only in the names ll persons bearing the same name with the deceased, but also in geographical other appellations. To the proper name is added the tribal name, which is en from some animate or inanimate object, and enjoys a wide extension. Over

Queensland girls, one showing "scar-tattooing." (From a photograph.)

istrict of West Australia, 400 to 500 miles in breadth, Grey found the same nes. The practice of exchanging names may also contribute to this—friends each other brothers and have corresponding mutual obligations. In Wide y the custom was to rub noses while each pronounced the name of a friend, l therewith the alliance was concluded.

The separate tribes are broken up into a larger or smaller number of groups, ich were expected to abstain from marriage within themselves. For example, South Australian tribe of the Narrinyeri is broken up into eighteen groups, h of which is regarded as a family among whose members marriage is pro- ited. Each family group has its totem, known in West Australia as *Kobong*. ey found everywhere an objection to any sort of interference with the *Kobong*. a man finds the animal which forms his cognisance asleep, he will not kill it, and

in the chase he will certainly allow it to escape. Any one who has a plant for h *Kobong* will not pluck it during a definite portion of the year, and under certa circumstances. The West Australian regards each individual belonging to t animal or vegetable species in question as his nearest friend, the killing of who would be a great crime. An important part of the men's initiation seems to concerned with introduction into this system of patron spirits.

The Port-Lincoln tribes are divided into Mattiri and Karraru. No Matt may marry a Mattiri, his wife must belong to the Karraru, and *vice versa*. Eve child, in addition to his own name, bears that of the maternal group. Here, the south, the *Kobong* also plays a part, though one of less importance; but it never transmitted to a son. On King George's Sound, also, we find two class

Young Queensland man with "scar-tattooing." (From a photograph.)

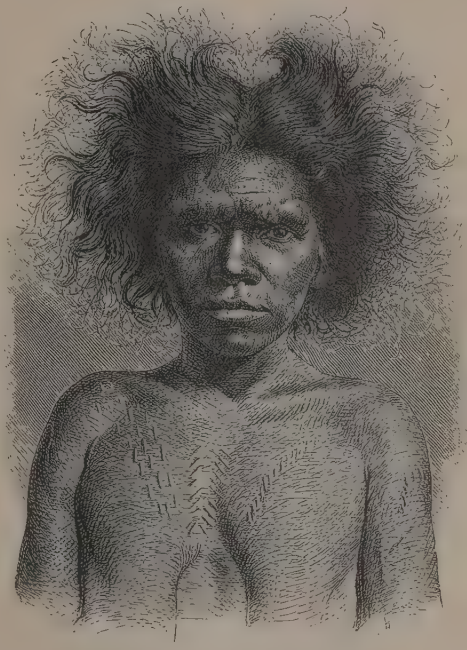
with the same restriction on marriage. About Hermannsburg, the Peake Rive and Charlotte Waters, the division is more complicated, the natives falling in four sub-groups; and a similar division is found in West Australia, in the sou of Queensland, and among the Darling tribes. It is doubtless owing to a trib fission of this kind that we find on the Dawson two groups named respectivel after the white and black cockatoos; whence arose the comical misconceptio that the West Australians were named after the most important article of the diet. About the North-west Cape, the *Kobong* system is said not to be foun Alleged caste distinctions are almost certainly to be referred to this exogam tribal organisation. It is reported that at Port Essington, besides the division the tribe into families, there exists another strict division into three cast According to Earl, the first claims descent from the fire, the second from t soil, while the name of the third means "net-makers," which points to *Kobon* Wilson quotes similar names as existing about Raffles Bay. In spite of th strict separation these divisions have equal rights and are outwardly quite simila

Among many tribes no custom is held more sacred than exogamy. The lea trace of blood-relationship is a bar to marriage, and the first question asked

MELANESIAN AXES, CLUBS, AND HAMMERS.

2) Clubs from the D'Entrecasteaux Islands. (3-5) Adzes from Eastern New Guinea. (6) Bird's-head Club from New Caledonia. (7) Clubs from the Moresby Islands. (8-10) Hammers from Western New Guinea. (11) Club with green-stone disk, from Eastern New Guinea. (12-14) Adzes and axe with blades of iron, shell, and stone, from the Anchorites and Admiralty Islands. (British Museum.) (1, 2, 7-14) from the Christy Collection.

rtship refers to this. If the couple unite in spite of it, their union is regarded lawless; and even punished with death, as incest, by the Australians, who in ters of morality are lax enough. It has also been proposed to refer to an gamic origin the *Ngia-Ngiampe* ceremony, to be mentioned presently, though is otherwise explicable. Yet it is a fact that it is employed when there is a n to prevent marriage between members of different tribes. But its chief pose is no doubt of another kind. It is plain that the number of women, ady insufficient for the many aspirants to marriage, is rendered still more fficient by polygamy, wherein senior men are preferred to the dvantage of their inferiors. ordingly, in every family mar- eable women have a high ue, as is plainly expressed in system of marriage by ex- nge. It is thus the interest of men of the same family that no of them should marry any of r own young women, thereby riving the rest of the valuable ect to be obtained by an ex- nge. Among the features of gamy we naturally find the om that the son-in-law shall utter the name of his mother- aw, nor the daughter-in-law of her father-in-law, nor even the name in a general mean- if it has one; also that persons ed by this affinity shall never each other after the betrothal, that the future mother-in-law t keep her face covered in her -in-law's presence.



New South Wales woman with "scar-tattooing." (From a photograph.)

The fact that the rule of exogamy is observed in marriage, but not so strictly llicit relations, may be interpreted on the supposition that this institution was ted at a time when marriage was on a firmer footing. In any case its object ow not always attained.

Connected with this is the strict determination of the degrees of kinship, which find also among other exogamous races. Among the Narrinyeri and the ru, a man calls his brother's children "son" and "daughter"; his sister's dren, "nephew" and "niece"; a woman calls her sister's children "son" and ughter," her brother's "nephew" and "niece." A Narrinyeri peculiarity is to father and child collectively *Retuleng*, mother and child *Ratuleng;* and to sess words denoting "a person who has had a loss," in the sense of widow or ower. Where political development is so feeble as among the Australians, hing but this strict organisation of kinship gives social life any stability.

Closely bound up with all this is the right of inheritance through females.

Family connections, acquired through the mother, are most strictly maintaine even blood-feuds pass by the mother, though to this there are exceptions. Amo the Narrinyeri a son inherits his father's property. In the west, every fath divides his land between his sons; if he has none, his daughters' sons inherit. woman can possess no real property. In the south, on the other hand, where t inherited land always has a name of its own, which the possessor also bea women share in the inheritance; in the north, where the youngest child takes t largest share, married daughters come in. The widow's position among t Central Australian tribes is peculiar; a man may marry again, but a widow becom the property of the tribe,—a form of polyandry. The West Australians ha marriage with a brother's widow; and also the custom that a married wom may enter into an engagement with an unmarried man, contingent on the dea of her husband.

That the wife should reckon as the absolute property of her husband, so that in Adelaide the term for "married man," means "owner of a woman," is n peculiar to Australia. But we find here a whole number of customs and usag tending to drive the wife still further into the background. The pressure of life of poverty bears most heavily on the weaker sex. We hear nothing of fema chiefs and Amazon bodyguards as in Africa, though, among the Kurnai, wom seem to take part in consultation. Female magicians, female doctors, sacr females, are very rare. By taboo laws, which remind us of Polynesia, they m not eat with the men, and are excluded from all religious functions, and usual from dances. The list of articles of food which are forbidden to them is lon including many fishes, for instance, and all turtles. Only women with child m eat pigeons; with all others they disagree. Yet more important perhaps is the fa that while certain mystic rites exercise a great influence on the life of the me the women being incapable of initiation are for that very reason placed on a low level, and in many respects are without legal rights. Secret societies stand like close aristocracy in the face of the excluded women and children. Even the vo which among some tribes the boy at his admission to manhood has to take, th he will abstain from all violence towards the woman, is easily broken amo people of so unruly and incalculable disposition. The Australians share with races in whose soul the feeling of magnanimity has not yet awakened to co sciousness a hereditary tendency to despise women. The custom in vogue amo the West Australians, by which one old woman undertakes the office of gran mother to the tribe, settles quarrels, separates fighters, but also summons to w is the only vestige of compensation.

In Central and South Australia great laxity of morals prevails both in a out of wedlock. European influences and the general process of decadence c only have tended to increase this, in many cases actually to call it into exis ence. No aid is given to morality by the betrothal of girls in childhood, or, as West Australia, soon after birth, to men of mature years; nor by the jealou with which they are subsequently watched. This is a safeguard against pr fligacy only by making it an infringement of acquired rights; just as adultery punished with death without its being any breach of good behaviour on a ma part to make over his wife to his brothers. We are told that the aborigines Port Lincoln hold the community of wives among brothers to be lawful, wh they regard as disgraceful the loan of a wife to a friend, or the exchange of wi

tween acquaintances for one night, though this is no uncommon occurrence. In s connection it is significant that while the men use the word *Yangara* for their n wives, and *Karteti* for those to whom as wives of brothers or near relatives y have a claim, women have only one name for their husband and his brother. We meet with polygamy wherever women and food are in sufficient abund- ce. In the fertile north-west, men have been seen with eleven wives; on south-east coast with two. If the burden of existence lies heavy on the stralian, half of whose life is spent under privations, it falls with double weight the wife. Yet, in spite of this, many observers praise the touching fidelity of women to their husbands and lords. Wives are a valuable property, which the er men try to keep and increase as much as may be, by the purchase of girls or exchange of their own daughters for those of their friends. The census of uth Australia for 1876 gave 2203 male natives against 1750 females. Even ong tribes that have never come into contact with Europeans, scarcity of women curs; so that we need not wonder if the capture of women is frequently a cause war, or if unfaithfulness on the part of wives is punished with death and tilation.

Capture of wives has been designated, with some exaggeration, as the Australian m of marriage-contract. When a woman is carried off, it is always by something the nature of a warlike attack. There are, however, gentler modifications. In south-east it is proper for a youth to obtain the assent of a girl from a ghbouring tribe, and then to elope with her, remaining two nights and a day in bush, to escape an imaginary pursuit on the part of her tribe. In New South ales the method is rougher. Here the girl, even when agreeable to the marriage, always secretly seized and carried off by the bridegroom and his party. This en resulted in a hot fight, wherein the girl, snatched from side to side, might ily receive most of the blows. But frequently the fight is a mere pretence; it ust a tradition, with which even the women would be sorry to do away. Some- nes the wife is obtained by purchase or exchange, sometimes received in return a present. In the two latter cases the arrangement is often made while she is l a child, or even at the breast. In that case the consent of the female partner desired, but in no way necessary. The girl expresses her willingness by lighting ire in the husband's hut. The consent of the parents and relatives is thought ch more essential among the Narrinyeri; a girl who enters into an informal nnection with a man is regarded as a prostitute, the fact that no compensation given for her being a blot on her reputation. Before the Narrinyeri had come ch into contact with Europeans, the procedure was this. Marriage took place ten or twelve years, and was a pure matter of exchange; no man could take a e who had not one to give. It is the brother more often than the father who es the girl away, and receives the gift in return; but he can sell this right to other, which brings us near to marriage by purchase. The man who wishes to rry a girl, approaches the one who has to give her away through an intermediary. en the relations on both sides come and encamp at a little distance apart. In evening the girls to be married are escorted by torchlight, with the men, into arge hut; the relations sit about for a time in silence, then sing and dance dly. Next evening the same thing is repeated and the marriage is complete. a bride is still very young, her husband restores her for a while to her people; d often rubs her with fat to make her grow.

The only death regarded by the Australians as natural is death in battl Their mind cannot put up with the idea of death as a necessity. Every death tha is not brought about by visible violence seems to them the result of magical art These are facilitated by giving the magician something which has been taken fro the person to be acted upon ; and for this reason fragments of food, gnawed bone and the like, are carefully burnt. The first funeral ceremony consists in discoverin the enemy who has done the mischief. Among the Port Lincoln tribes the neares of kin sleeps the first night with his head on the body, in order that in his dream some indication of the magician may reach him. On the following day the corps is borne out upon a bier, and now the friends of the deceased call out the name of various persons. At some one of these they say that the body gives a start i a particular direction and moves towards the criminal. The Adelaide native carry the dead on a wheel-shaped bier of branches ; one man in the centre supportin the body with his head, until the inquest has arrived at a conclusion. Relation who do not lament sufficiently at the funeral are easily suspected of complicity i the death. Among other tribes in the south the corpse is laid upon a bier calle "the Knowing One," and questioned. A movement of the bier is regarded as a affirmative. If it does not move, further questions are asked.

Among the Dieyeri the corpse has its great toes tied together, and is shroude in a net. The grave is about 3 feet deep. Three or four men place the body i this and let it lie on its back for a few minutes. Then three men kneel down an lay their heads upon it. Then an old man takes a rod in each hand, places himse before the corpse, strikes the rods together, and questions the dead. The othe men, sitting round in a circle and acting as mouthpieces for the dead man denounce some one, upon whom the whole guilt of the death is cast.

Another way, used widely in the south-east, of detecting the magician, was t observe the direction in which some insect crawled from the grave. Or one ma would cleverly find footprints leading towards a suspicious person. Among th Moreton Bay tribes, after the dead man had been eaten, the official sorcerer woul hold up his skin before various persons, and draw conclusions from their demeanou as to the one responsible. An unnatural death is somewhat discreditable, an accordingly when the dead man has been swathed in bark, they whisper in his ea an injunction to say in the next world that he died naturally. The tribes of Cap York have a way of punishing the guilt of blood, which reminds us of Polynesia customs. After the funeral feast the chief enters the group of men with the skul weapons, and ornaments of the deceased, and so long as the ceremony lasts, he i allowed even to commit homicide, as the representative of the dead man.

If the reputed slayer belongs to another tribe, the friends of the accused formall curse the dead man and all his deceased relatives ; thus affording a *casus bell* Before the fight the dead man's tribe raise a loud cry of grief, while the other sid excite them by laughter, mocking dances, and buffooneries. Both sides then revil each other vigorously ; a few spears are thrown and a slight wound or two given Finally the old men declare that honour is satisfied.

The "native inquest," as it is called, is followed by the interment. This take place either below or above the surface of the ground, the former method being more frequent in the southern half of Australia. In the north-west, and on th shores of Lake Alexandra, Grey and Taplin speak of great sepulchral mounds These perhaps go back to a time when the deaths were more numerous ; among

e Australians of to-day we find only single interments. A fire is first lighted in e narrow grave, to drive away all hurtful magic, then it is half filled with leaves, which the body is laid either stretched out or doubled up. It is then secured th sticks and covered with leaves and earth. The earth which has been dug t is heaped up at the head and the foot. Further, the grave is strewn with leaves red earth, and a tree-stem is laid upon it, or in many cases a hut built, at the or of which are placed the broken spears of the dead man. In front are three sts with carvings and figures, and painted red as a token that vengeance has en taken for the dead man. On the Pime River a chief's body is placed in a llow tree, and the departure of the soul is encouraged by a whirring noise which e bystanders make. The head lies to the east on King George's Sound, to the st among the South Australians; while the West Australian practice varies th the tribe. Where the body is doubled up, it is tied by the great toes or by e thumb and one finger of each hand; the arms are thrust under the knees and e head bent over them; and the corpse is shrouded in a net or a hide. Often e beard and nails are removed before burial; the weapons are regularly placed th the dead.

Among many tribes a thread of cannibalism runs through the burial customs. he Dieyeri, after the "inquest," cut all the fat from the face, loins, arms, and omach, and hand it round to be consumed by the mourners. Macdonald describes ess savage custom on the Upper Mary River in Queensland. The dead body was d between two piles of logs and duly roasted. When the skin was black all over, e master of the ceremonies drew longitudinal and transverse lines with chalk on it, divided it with a knife along the lines from head to foot, separated the ad from the trunk, and cut every limb into pieces. Meantime the rest kept up cannibal howling and gave themselves deep wounds with their battle-axes. nally the divided portions were not eaten, but buried. The list of customs pre- ding or following an interment is in many cases extensive. Painting is frequent; o women beat themselves with sticks till the blood flows; men pull their beards t. On Encounter Bay the women scrape the earth on which the body has lain to a heap, holding that the soul has passed into the earth and can only be set e by scraping it. In many cases the mound is not over the grave but to one le, the earth which has been thrown up is allowed to lie, and the walls of the ave, which is furnished with a side-niche, are trodden in at once over the body.

The graves are often conspicuous, especially by the grave-posts. Peron saw e on Cape Naturaliste, in front of which was a semicircle of black and a larger e of white sand, with circles, triangles, and squares, marked by planting rushes them. Similarly he saw, on either side of a stream near King George's Sound, circular patch about 3 feet in circumference, stuck round with eleven sharp ears, stained blood-red with gum, the points on either side turned towards e other. In the south and east graves are open clearings with paths to em, or conical sandhills surrounded by a circular trench or three rows of semi- cular benches; hard by are posts with figures scratched on them. They often ve huts or straw roofs built over them, or they are themselves the huts in which e corpse reposes. They are also covered with brushwood to keep the ghost om getting out. Lastly, cases occur of burial in ant heaps. The simplest form above-ground burial is when the dead are put into hollow trees. Near Port acquarie the corpse is sewn up in bark, and hung to a tree at a height of 10

feet. Stuart found on a tree near Hawker Creek a child's coffin, prettily carve in wood to the shape of a canoe, ornamented with narrow incisions at the side covered with bark, and bound with string made of grass. In some place cremation prevails. On Portland Bay hollow trees are burnt with the body i them; near Port Macquarie the body is hung up and a fire made below it. Th remains are a hindrance in travelling, and in the hands of an enemy might b employed for mischievous purposes of magic, so they are afterwards thrown int the sea. A further variation is to skeletonise the body and preserve the bones The aborigines of Cape York take the bones out of the grave after some months and lay them in a common receptacle in some remote forest; and the Yardaiki about Somerset take them, after six months' burial, to York Island. But a bones are not put away. Skulls have a use as drinking vessels; and the Papua fashion of wearing the lower jaw of a slain enemy as a military decoration occur as met with on Saibai Island. Mothers carry the bones of dead children wit them in their bundles. In order to promote decomposition the body is expose on a platform to sun and rain, just as about Port Moresby the corpse is lai under a roof, and a woman stays by it till it has decayed. Among the tribe on the Murray and on Encounter Bay the corpse is flayed, and afterward roasted and dried on a frame. The relations crawl into the hut when this take place, smear their bodies, and keep up a hideous howling day and night. Whe the body is dry they drag it about with them from place to place as a precio treasure. If they become so many as to be a nuisance, the oldest mummie are fastened to a piece of wood and hung up in a tree too high for the wil dogs to reach them. The Central Australian tribes preserve only chiefs or falle warriors; others are merely buried. Names of dead persons are avoided; peopl who bear the same name take another. In Central Australia, also, graves ar made only in places where a camp is never likely to be pitched.

The Australian tribes have not, and never had, advanced to the point o forming states. Each family group lays claim to a definite tract of land, th enjoyment of which is either claimed in common or divided among individual according to the nature of the produce. The first appears in common rights o hunting and fruit-picking, while traces of personal property are so far develope that single families will assert preferential claims to a spring, a brook, a portio of forest, and the like. The two rights are determined separately for special case For ordinary hunting all land belongs alike to the community, but when grass ha to be burnt the consent of individual occupants is asked. Even among noma tribes certain families have a several right to particular camping-places. A numbe of tribes will unite in the common ownership of particular tracts, or in the use o phonolite quarries for purposes of axe-making.

Against foreign invasion the feeling of joint union is highly developed. Th external boundaries of many tribes are even said to be marked with stones, whe they do not follow the course of mountains or rivers. Whoever crosses them mus bear a message-stick as a token of safe conduct, or in some other way prove hi right to do so. In West Australia, where the tribes from the interior come dow every year to the coast, passage seems only to be allowed them for that purpos The Australians cannot at all understand being treated as landless men, hence th apparently unprovoked attacks upon exploring parties of whites.

The actual differences between tribes as regards power, culture, or consideration, e small. Some, however, gain influence from the reputation of having powerful agicians at command, others, like the Cockatoos of South Australia with their omerangs, from fame of their stronger weapons. Little individuality is stamped on some populations by their names. The simple name "Men" is often found; us the South Australians between 23° and 28° South, 132° and 134° East, are lled nothing but "Erilla." The name "Narrinyeri," too, according to Taplin, notes merely "belonging to mankind." Family groups take local names, or are lled after the group-symbol.

Nature being for the most part unpropitious, renders dispersion compulsory; t, at the same time, knits the bonds of the family group closer. This favours high degree of isolation, which imparts to the life of a community a republican quasi-federative character. Every family group has its elective chief or *Rupulle*, no in all contentions conducts the proceedings as speaker. He had originally live on the hunting-ground and break up the game. Generally he is the eldest, rongest, or most expert; but a bully is sometimes elected. The chief has a uncil of the oldest men, called by the Narrinyeri *Tendi*. His seat in this is lled the judgment-seat, and his chief duty is to pass sentence for every kind of nsgression. If the *tendis* of two tribes hold a joint meeting, the circle is often mposed of hundreds from one and the other. Europeans have to give leave to eir servants, even in the midst of important work, in order that they may attend meeting of this kind either as judges, witnesses, or spectators. In the reports travellers mention is even made of "princes," as among the Yaribandemi on acleay River. But since the chiefship is a post giving little pre-eminence, it ten happens, on the other hand, that it is entirely lacking; according to chürmann, the Port Lincoln aborigines have neither a chief nor any person of cognised authority. Among others a certain influence is exercised by the oldest, rongest, and bravest, also by magicians.

If a native murder a member of another tribe, his life is forfeited to that tribe. he friends of the slain man demand his surrender, and he is speared to death. hen they bury two staves of a span long, one to represent the slayer, one the ain, and the deed is expiated. If the slayer dies before vengeance has been ken, or succeeds in escaping punishment, his nearest of kin has to bear the enalty. For lesser offences it suffices to run a spear, when occasion serves, rough the leg or arm of the culprit. Among the Dieyeri the arbitrament of ms is called for even in cases of theft or slander. Other penalties, as for anslaughter, are banishment from the tribe, or compulsory withdrawal to the aternal kindred. For small trespasses stripes are commonly inflicted, increasing severity, as we go south, to the point of beating with a club about the head. ut they are glad to alleviate severe penalties by a touch of formality; thus in e case of spearing, the culprit is furnished with a shield, and permitted to use it keep himself uninjured.

If a blood-feud has to be set on foot, it is quickly announced by means of loud ies, from the tone of which the degree of the crime can be judged even a long ay off. The very children know if they are in danger by reason of their kinship the guilty person. But there are offences which are left to be dealt with by e gods. A man who eats a grub out of his neighbour's tree falls ill; if he wishes avert this, and private vengeance as well, he sticks a bough in the ground by

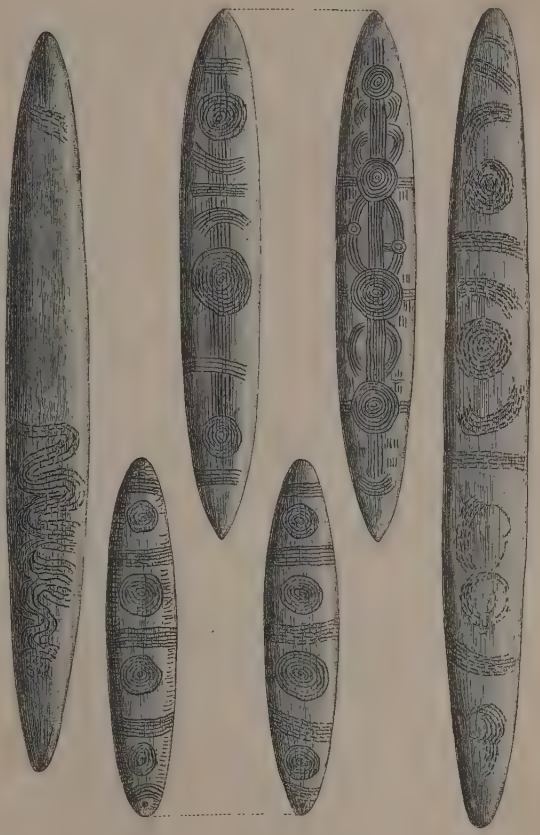
the tree. Among the Narrinyeri a refined form of revenge called *neilyerie* was introduced a generation ago from the Upper Murray. The person seeking revenge inserts the end of a spear or a sharp piece of bone into the flesh of a decaying corpse, and lets it stay there for some weeks. Then he anoints a bunch of hair with the fat of a corpse, wraps it round the point of his dagger-like *neilyerie*, and thus by a single prick can inoculate his enemy with the cadaveric poison.

The natural conditions of the land, unfavourable as they are to communities of any size or permanence, the difficulty of obtaining food—in short, the hard struggle for existence, renders more acute the distrust between man and man, tribe and tribe. Belief in ghosts aids to produce this result. Even the return of acquaintances calls forth no signs of joy; it is some time before unrestrained conversation takes place. Strangers are thought to bring illness; but if they are once received they are perfectly safe. Among the Dieyeri, if a man of rank appears the warriors go to meet him and make as though they would drive him off. But he too brandishes his weapons; both parties parry with their shields; he is embraced and brought into the camp to be entertained. Greeting is indicated by rubbing the breast, leave-taking by extending the hands and raising them to the head.

We hear of mutual visits, of hospitalities, of reunions for the purpose of deciding contested points, or for trade, or at the initiation of the youths. Intercourse by messengers is conducted according to definite rules. Among the South Australians it is the women who carry overtures for peace; if the women of the opposing side return the visit the quarrel is regarded as at an end. The institution of *ngia-ngiampe* throws a light upon the extent to which any intercourse between one tribe and another is conceived of as an important occasion. The navel-string of a child, tied up with a bunch of feathers, is presented to the father of a child of similar age in another tribe. The two children are thenceforth *ngia-ngiampe* to each other; they must have no contact nor speech with each other, but when grown-up they act as agents in the barter-trade. The perforation of the nasal septum is also connected with the precautions for security in dealings with neighbouring tribes. The father of the child suggests the operation, which is performed at noon by an old man to the accompaniment of chanting. While the wound is healing the boy executes the commission he has to do, and henceforth he is regarded as sacred, and is honoured.

A deep insight into the Australian mind is afforded by the long list of initiations, which accompany the passage of boys and girls to the age of maturity. With this is combined some sacrifice of a part of the body, whether by the knocking out of teeth or the amputation of a finger. Besides these we find the infliction of pain by blows, scarring, fasting, or compulsory seclusion; everything being referred to divine institution. In the interior, boys creep with blindfolded eyes by a long passage into the circular enclosure called *bora*, and for a week after the festival have to look downwards. Among the Boyne River tribes candidates have to keep a strict fast for three weeks before the festival in a square enclosure within the forest. About Cape York circumcision and the knocking out of a tooth are followed by a month in the bush; the youthful novices being painted white, and forbidden to be looked upon by any woman on pain of death. After this they return to their parents wearing a piece of white shell as a frontlet, and keep on their festival adornments so long as they hold together. The Narrinyeri do not allow a boy from his

nth year to comb or cut his hair, nor to partake of the thirteen kinds of game at are most easily procurable and most nutritious. Tattooing is often undergone an early age; among the Encounter Bay tribes by boys of ten years old. hen the time for it is come they are seized without warning by the men at ght, and dragged off to a distant place; the women meantime making a show vigorous opposition, and throwing fire-brands. All the hair on the body is ucked out or singed off, the ir of the head is combed th a spear, and the body eared with oil and ruddle. ter fasting and watching for ree days and nights they e allowed to eat and sleep; t they must lay their heads ross sticks stuck in the ound, drink only through a sh, and abstain from all ods that are permitted to omen. They remain in this ndition, as *narumbe* until eir beards have grown three nes. They are forbidden take a wife, but may go er any girl of their own age. ormerly death was the nalty for a breach of these les; and it is still firmly lieved that their infraction ll be punished by growing ugly and by premature ey hairs. The original object these laws was perhaps to ughen the men by means pain and fatigue; but now ey certainly have the con- ary effect, and the health the young men is often mpletely undermined by em.



Australian magic-sticks. (Vienna Museum.)

But besides the hardening process, there is a deeper meaning in these ceremonies. o begin with, they serve to remove the boy from the women; which accounts r the care, amounting to pedantry, that is taken to exclude women from the itiatory rites. The instrument, resembling the "bull-roarer" of English boys f which a representation will be found on a later page), which serves to indicate at sacred business is going on in the neighbourhood, may not be looked upon touched by women and children. Similarly women may never, and lads not l after their last tattooing, behold the sacred quartz implement used for that rpose. The meaning of some initiations is quite obscure to us; as for instance

one described by Wyatt, in which an Adelaide native opened one of his ow veins, after previously tying it with a string of human hair, and sprinkled th back, head, and breast of the boys with blood, which was allowed to "dry on. This took place in a remote spot amid profound silence. Among certain tribe tattooing, by the manner of its execution, becomes of the nature of an initiatory rite, though its primary object was to give greater suppleness to the arms. Th patient keeps away for some months from female society; wears rings of opossum skin on both upper arms, and carries two sticks polished by long use.

Circumcision is so universal that to call a man "uncircumcised" is an insul The nearest of kin arrange for and perform the operation. The boy makes a though he would fly. He is caught, laid on the ground, rubbed with dust, an lifted by the ears with loud yells, to rouse him from any spell that may have bee cast upon him. Other mutilations are practised in West and Central Australia it is supposed with the view of reducing the power of procreation; but it i uncertain if they have this effect.

In the case of girls also, the passage from childhood to womanhood is celebrate with initiatory rites and sacrifices. They are secluded and have to fast and underg painting. Among the Larrakia of North Australia the girls on the approach o maturity are swathed in bark and kept in a hut for three weeks before the ceremony Women have the top joint of the right forefinger cut off; and, in commemoratio of special events, have teeth knocked out or a finger amputated. Cicatrisatio in them involves a smaller portion of the body than in men.

§ 14. THE TASMANIANS

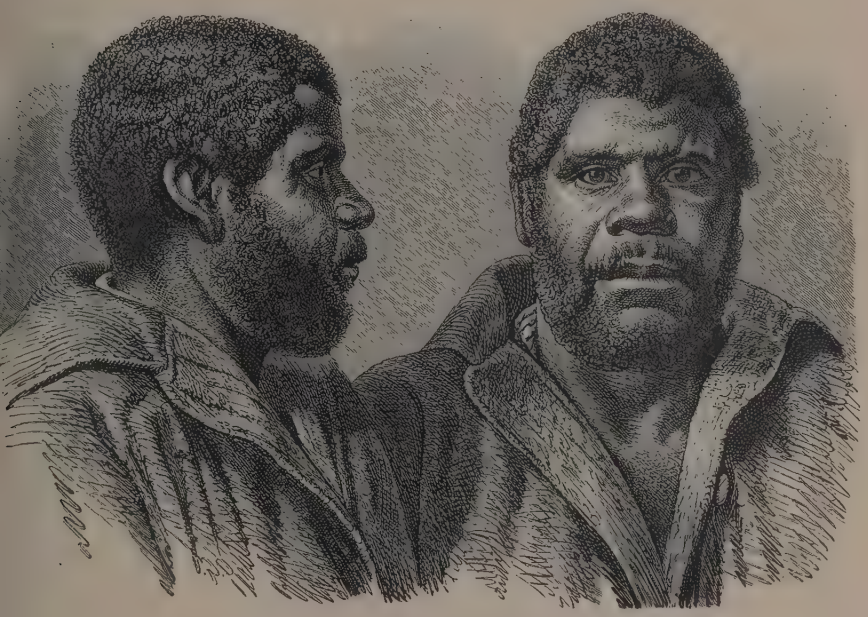
Physical resemblance to the Melanesians—Dress—Dwellings—Navigation—Weapons—Funeral customs—Superstition—Extinction of the race.

TASMANIA or Van Diemen's Land was formerly deemed to be a portion of Australia and therefore the natives of these two regions were regarded as in all essential conformable. But this is not entirely the case. There can be no doubt tha both are on an equally low level of culture; but a distinction is evident in th bodily characteristics, wherein the Tasmanians showed an approach to th Papuan type.

The bodily appearance of the Tasmanians appeared at one time to experi enced observers far from miserable. Cook describes them as for the most par slim, of average stature, woolly-haired like the aborigines of New Guinea, bu without the flat noses and thick lips; their features very far from disagreeable The children were even pretty, the women at least not repellent. The accurat description which Cook's surgeon, Anderson, has given of the natives of Adventur Bay has in its main points been confirmed by the best observers. The colour o their skin was a blackish grey, not so dark as that of the Africans; their hair wa woolly and divided into tufts like that of the Hottentots; the nose full and broa but not flat; the eyes of medium size, the expression of them not remarkably lively or sharp, but open and frank; the mouth wide, and surrounded by a thick beard smeared with grease and ruddle. Their build was in general well-propor

oned, though the belly was rather strongly prominent; in some degree owing to eir favourite attitude with the upper part of the body thrown backward, and one and across the back grasping the other arm as it hung.

Cook and Anderson found the Tasmanians in a state of absolute nudity. or ornament narrow strips of hide were wound several times round the neck, like ring, or pieces of hide wrapped round the ankles. The women had a kangaroo kin in its natural condition tied round the back and loins, but only for carrying ie children on their backs, it did not cover the lower part of the body. When avelling they also wore mocassins which were not found among the Australians. eside the scars on the body, as in the men, the women had their whole head



William Lanney, the last Tasmanian. (From a photograph.)

naven, or at least a tonsure. The painting of the body and the powdering of ne hair, which was worn by the men stiffly frizzed with red dust, are spoken of; lso the anointing with fat and adornment with strings of shells. Red feathers ere popular, beads and coins were accepted with satisfaction, iron was not ighly valued. The dwellings of the Tasmanians consisted of wretched huts. The huts showed great variety; this want of a definite type may always be egarded as a sign of low development. There were also huts built in a hemi-pherical shape of stems and woven boughs, temporary tents, wind screens made f boughs, or grass piled up upon poles but no real villages; the bark huts were nostly placed on accessible points of the coast, in their neighbourhood were great eaps of shells.

The Tasmanians are more closely connected with the true Australians in ne degree of culture possessed by them than anthropologically. One piece of

furniture which they had and the Australians had not was the head-cushion of skin. In spite of the climate they were no more of agriculturists than the Australians, but their shores and their forests provided flesh food in abundance. Their greater energy resulted from their better nourishment. They seem to have cooked, like the Australians, with hot stones. Their canoes were merely broad raft-like vessels made of bark or strong reeds. Accordingly they never ventured far out to sea, nor had they always paddles to propel their boats, often using only spears; they could however swim and dive well. They lived by preference on shell-fish; their weapons differed materially from those of the Australians; they had no boomerangs, throwing-sticks, or bows and arrows.

Truganina, the last Tasmanian woman. (From a photograph.)

They chiefly used long wooden spears, a sharpened missile stick half a yard long, wooden clubs, and for chopping and cutting rudely chipped flakes of stone. They lived almost constantly in a state of war, but they were not man-eaters, and they treated their women better than did the Australians. The 6000 or 8000 estimated inhabitants of the pre-European time were divided into numerous tribes. Their modes of burial remind us of Australia, and also the manifold ways even in this limited space of burning, of cremation, burial, putting away in hollow trees, building dead huts over the grave. The Tasmanian character displayed itself to the whites as in the main cheerful and good humoured; their mental endowments were tolerable. Too late was education allowed to spread among the remains of this unhappy race, and too late was it recognised that, as was expressed by Mr. A. R. Wallace, we had here to do with a race having dispositions towards progress to which civilization gave no time to bring its dispositions to perfection.

The 5000 aborigines living in Tasmania in 1815 had fallen to 16 by 1860. order to atone to the remainder for the injustice that had been done them, the all band was assembled at Oyster Cove, on the east side of the island, and aced under the care of a protector of the aborigines, and provided with all cessaries of life. But by 1876 the Tasmanian stock became extinct in the oman whose portrait is given on the preceding page.

§ 15. RELIGION OF THE AUSTRALIANS

istinctness of religious conceptions—Attempts at cosmogony—The creative god—Gods of the stars—Secondary creators—Gods who return to Heaven—Beast legends—Life after death—Ghosts—Other superstitions—Magicians—Sacred stones and wood—*Plongge*—Magicians and physicians—Changes in religious matters.

HE religious conceptions of the Australians give the impression of decadence and rruption. There is a sound about them not only as of an earlier time but as from reign regions, confused indeed and indistinct, but with a ring of Melanesian and olynesian tradition. Some say that they have heard talk of a supreme being, e giver of good, in the north under the name Koyan, in the south under that of urundere and Baiamai, but we can attach no great weight to this. In these dimentary mythologies the supreme god is, as a rule, the one to whom the eation of the world is ascribed without his being self-created, and who was from e beginning in heaven before the hero gods existed. Such appears to be the omaincherclu of the Adelaide tribes. The second god, Monana, ascended to aven only later by means of spears thrown up one after another; to him the eation of man was ascribed. Among the West Australians we meet with a rtain Motogon as creator who produces the earth by calling and blowing. In uth Australia Barim forms the world by drawing the plan of it instead of by eaking. We are reminded of him by the name of Boorambin, the son of the uth Australian Baiamai. Also the Dieyeri legend that the moon created the rld at the request of their head god Moora-moora, points to the notion of a cond creator other than the chief deity.

The chief distinction between Australian and Polynesian mythology is that e former does not grow up from its root in cosmogony to any fixed genealogy, y recognised history, any cycle of divine legends. We do indeed meet with tempts in this direction, but they have made no progress. The Dieyeri refer e origin of the sun to man's need of hunting the emu; they used to pray in eir dances that Moora-moora would cast heat upon the earth, and so he created e sun. The aborigines of Encounter Bay say that the sun passes every evening rough spirits in long double rank, who implore his favour. Whoever obtains it stows upon him the skin of a red kangaroo, and that is the reason why he urns in red robes. The same thoughtful people make the moon grow thin by ason of her long stay in the company of man; the supreme being has her driven ay, she conceals herself, and meantime obtains new strength by eating roots. he South Australians regard the moon as the sun's husband, and say that the fe kills the husband at every new moon; and both here and in West Australia

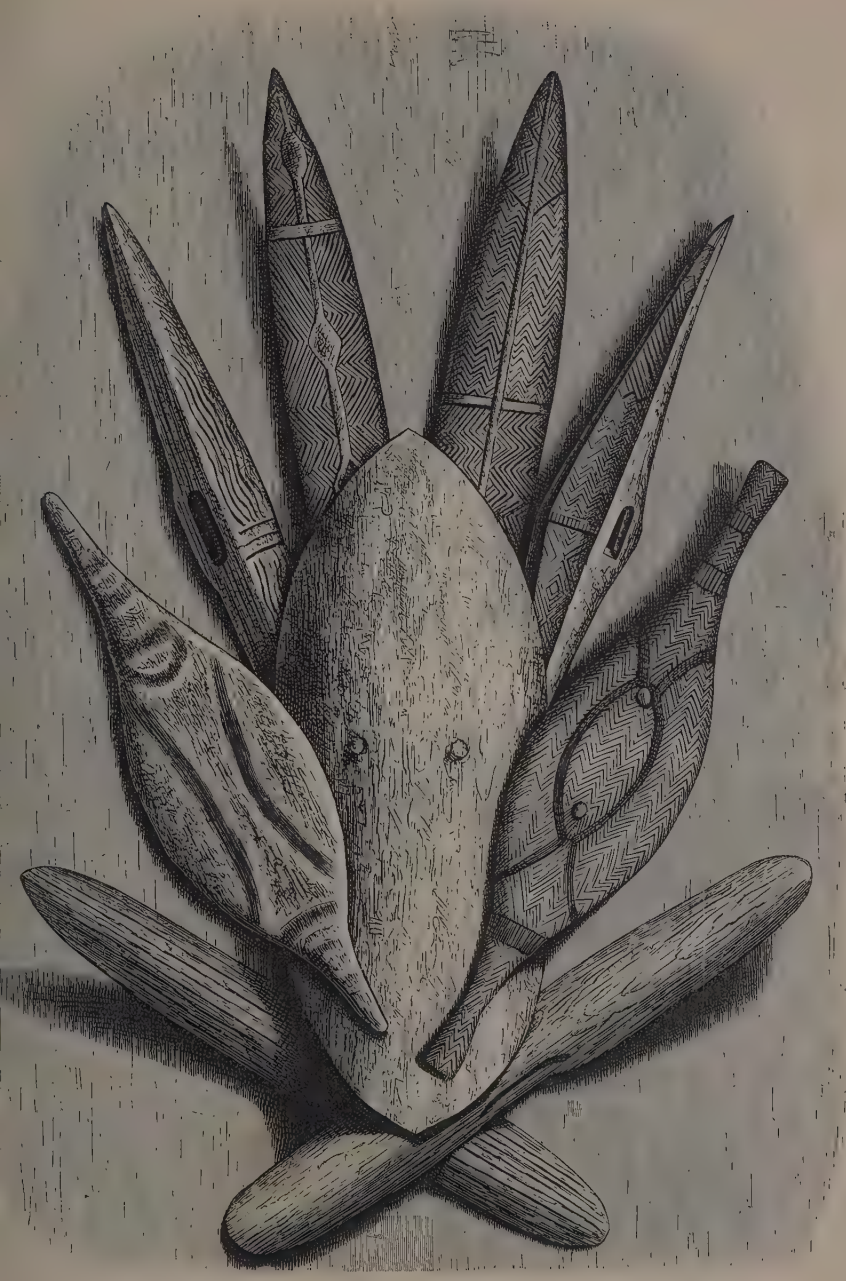
it is believed that the two once lived on earth and produced children. Simil human traits are recounted of the stars.

Other legends contain traces of other deities, and of contact with Polynesia myths. Many districts received their names from Nganno, who then change himself into a sea monster. He is, perhaps, the same who came from heaven Uandu, and made the Murray River. Narrundere created the fishes in the por of Tulurung by throwing stones in, and fished up the rocky islands called Witun enggui with a net; thunder is the voice of his anger, which bellows from th rainbow. In this connection of earth with heaven there is a distinct Polynesia ring.

From the fundamental idea that the souls of the departed go to the stars, become stars, myths sprang up, bringing spiritual beings into connection with th stars. Thus it is believed in New South Wales that souls continue to live in th clouds, in the south that they become stars. The construction of constellatio is an easy result from the belief of the Encounter Bay natives that the souls u above leave their huts in the evening and go about their business as they former did on earth. The Milky Way, for example, appears as a stream or a row huts, where the tribes profess to be able plainly to recognise the ash-heaps an the ascending smoke. Falling stars are the children of the stars; the rainbow, which the Adelaide tribes distinguish the outer and inner bows as male an female, rises from the clouds as smoke. The moon is counted a good star, th sun a bad one, and accordingly the power over evil of many kinds is ascribed t the sun and its brethren. One who wishes to be healed spits in his hand an stretches it towards the sun.

Among the Kamilaroi Baiamai appears as the creator of men. He mad the first man as he rested on a rock between the streams, and then disappeare This myth resembles that of the creation of man in the falls of the Moraby; th nucleus of it is his origin from the water. After man had been made the go sent his daughter Karakarak to kill the serpents; she had a stick which breaking produced fire. In the north-west, also, the creation of fire was connecte with a fire-god, but he was worshipped there, not in the person of the daughter the god of heaven, but beside her. Among many tribes the lizard comes into th legend of the creation of man. We hear of Tarrotarre, a god in the shape of lizard, who divided the sexes and created man and woman. The spirit cut off on lizard's tail, and the lizard went upright. Then he made them male and fema that they might reproduce their species. This is the belief of the Dieyeri.

In other ways, also, the human and the animal world are variously inte mingled in the legends of creation, and this is connected with the *Kobong* tribal cognisance. When the dancing ancestors of the Narrinyeri were makin the hills and pools of Mutabarringa the strong Kondole was invited, and as h concealed his fire he was wounded by Rilballe in the neck with a spear; they a laughed, and were accordingly changed into animals, while Rilballe placed the fi in the grass-tree. The creation of a number of fish from the bits, into which wit the help of his hunting companions he had torn a big fish, is related of the sam deity. He produced a species of flat fish by throwing a flat stone into a pon Everywhere it is imagined that a more powerful race was first created. T Wyungaree, the hunting companion of Nurrundaree, is ascribed the creation small kangaroos by tearing up and strewing abroad the fragments of a gia



Australian Shields.

garoo, and corresponding to this the gods and heroes were, as may be supposed, he nature of giants. To these creative legends are attached a whole list of ller beast legends, of which the wish to interpret striking properties was the nsible parent. But these, too, are at bottom mythological. In South Australia related that the tortoise originally had poisoned fangs, and the snake none ; he snake asked the tortoise to give her its fangs, as she could make a better of them. The tortoise exchanged its fangs for the snake's head, so snakes e poisoned fangs, and tortoises have snakes' heads. The Narrinyeri myth ut the origin of rain is original, and seems to be a weakened form of a deluge nd. An old man lived with two younger friends ; one day these, having made ood catch of fish, took the best for themselves, and set aside those of inferior lity for the old man. He went straightway into his hut and shut-to the door, at once it began to rain hard. He remained dry, while they for punishment e wetted through. Afterwards all three were changed into birds, and when the one screams it is a sign of approaching rain.

A common feature is the return of a god to heaven after accomplishing great gs, and also suffering ill-treatment on earth ; frequently he has grown old as . Thus the Narrinyeri relate that when Nurrundaree, after destroying his tive wives by a flood—other legends speak of a metamorphosis into rocks— returned in bad temper, as an aged man, to the far west, he found one of children left behind. To him he threw the end of a rope attached to his staff, pulled him up. Since that time, whenever a man dies, the god's son throws this rope. When the dead persons reach the half-unconscious ancient, their lling-place is assigned to them, they become alive, young, and sound again, receive wives according to the number of the tears, which show how many left on earth. Just as with the Oceanians, the creation of gods comes about he immediate promotion of the souls of mortals. Taplin's informants professed ecognise in Nurrundaree merely the apotheosis of a chief who had led their tribe s present place of abode. The deity Bedall seems to stand quite alone. Of it is said in Queensland, Bedall brooded over the clay, and made the world a tortoise. But is not this tranquil god connected with him of Moreton Bay? re Buddai or Budja, the progenitor, lies sleeping, an old man, with his head on arm, and that buried in the sand ; and as at his former waking the earth was ndated, so at his next he will swallow mankind.

Gods are changed into beasts, or appear at whiles in beast form. Turramullam ears in company as a snake ; Uokol is a demon who lives in the water as a ntic serpent ; and Tarada, who taught scar-tattooing, was changed into a mighty garoo. A large number of demons, and especially the dreaded Melapi, appear irds of the nature of vampires. Besides these there are a number of utterly rd beast-legends. If a boy tickles a dog till it coughs, the dog becomes the , and the boy a *panpandi* tree. If you kill the fly *tenkendeli* without uttering name, you will never swim again. And many more of the same kind.

If, as we have seen, the funeral customs of the Australians point strongly to elief in a life after death, allusions to the same are not lacking in their world religious legend. Soul-myths are intimately entwined with their whole myth- gy. We find even indications of a belief which makes a distinction between shade or ghost, and the vapour which rises, or thought. To the souls of dren also a future life is assigned, even by tribes who only mourn a short time

for their children. Most frequently the idea is anthropomorphic, with echoes fr the migration of souls. Thus, in the west, it is held that the souls of the depar sit in trees and lament, but can be charmed down, and pass completely into ot living beings. The souls of ancestors are imagined as in relations of active he fulness, and reckon as beneficent spirits; if a whale comes ashore it is their doi Bad spirits also spring from the deceased, or the cunning and spiteful Mani; j as apparitions of ghosts are frequent near graves, and the dead give harmful sto to the sorcerers for witchcraft.

The Australians of Wellington say that white angels, or *balumbal*, live honey in the western mountains. This is interpreted of souls, and recalls how, with the Polynesians, many tribes place an island of souls in the west, or assu a connection between water and the next world. The souls of the good go to good gods, those of the evil perish. The belief in a judgment-seat placed heaven seems to have existed among the Narrinyeri from pre-Christian tim Schürmann came across the idea of Hades in the form of a spacious canoe, whe quite in Polynesian fashion, ancestral souls lived. Perhaps the consecration certain localities is connected with the belief in abodes of souls. The wide spread notion that the dead become white men, and return as such, is met w here also; indeed the natives have in fact greeted certain whites as depar friends.

There is a vast multitude of evil spirits, and the same was the case Tasmania; the Bunyip haunts the forest as a spectre, Kupir comes out of ca to steal, Arlak throttles people in the dark, Pukidni goes with them as invisible companion. Like the Malayan witches, demons fly silently through night air, but Mani approaches noisily, seizes the hair and beard and strangles man. Club-bearing giants are dreaded in the south; on the occasion of a f *aurora australis* in March 1881, Coues's Queenslanders were in a state of gr consternation because they took it for the angry flames of the malignant Cooc In the belief of the West Australians, a winged serpent lives at the bottom of water, causing sickness and ulcers. For this reason a great part of Australi conduct is dependent on rules for carrying on the fight with the creatures of th uneasy fancies, and the chief task of the medicine-men lies in appeasing or combati these. There exist most fantastic tales of alleged fights with evil spirits a the like; who could venture to doubt them? Europeans who have lived w Australians have more than once been awakened by them in order to take part their night watch against ghosts.

The Australian sorcerers are usually elderly men possessing some acquaintan with medicine, and accurate knowledge of the traditions relating to the discov of persons who have caused deaths, to funeral initiations and conjurations. Brig transparent stones are sacred amulets which the priests alone may touch investigate. It is believed that the sorcerers have a stone or bone in their stoma from which they secretly import splinters into the veins of those upon whom th work their art, and for this reason the cure of diseases consists chiefly in t extraction of these stones. This magic stone or bone is introduced into t sorcerer by means of a visit paid to the spirit-world whither they are transport in an ecstasy, or else by passing a night in a fresh grave. Besides this t sorcerers do a great deal with sacred wood which they obtain with incantatio from a tree supposed to possess gifts of healing or consecration. Among t

eyeri, all the sacred operations in which wood is required, such as knocking t the teeth or perforating the nasal septum, are performed with sticks of the *yamurra* acacia. From this all magic wands are prepared, especially the otted stick called *plongge*, by touching with which the breast of a sleeping man may be caused to fall ill. For keeping the women away from the initiation of ls, a "bull-roarer" some ten inches ng, with its string made of twisted man hair, is whirled by the boys as to cause a humming roar. It also used in hunting, in order with sound to drive up an abundant ey. Ancestral figures seem to occur dom amongst the Australians, nor, deed, are representations of the man figure at all frequently found. here are, however, things which mind us of these and of fetishes, ch as stones 18 inches long and vered with bark which Flinders und on the Sir Edward Pellew ands in the Gulf of Carpentaria. South Australia the *mokani*, a one wedge fastened between two ces of wood as handles, is said to witch people — men by touching em with the sharp end, women with e blunt end.

Australian "bull roarers"—one-fourth real size. (Berlin Museum.)

The strongest magic resides in rtain parts of the human body or the remains of human food. Every ackfellow tries to obtain, for purses of magic, the bones and the ck-bones of certain birds and fishes which some one has consumed the sh. By means of these he thinks at he can acquire power over that an for life or death. In order to apt the bones for that purpose ey are first scraped, and then a mp of red ochre, fish oil, the eye of a fish, and the flesh from a corpse, are uck upon them and the whole is laid on the breast of a human corpse. Then, the other person annoys the magician, he sticks the bone in the earth near e fire so that the lump melts slowly away; as it melts it causes the man for om it is intended to fall ill at however great a distance. Human kidney possesses magical power against evil spirits, and it is accordingly extracted om corpses and even from living prisoners.

The magicians, however, are not the only doctors; besides them there is a ecial physician class, and in the west the old women also often practise. But,

as a rule, both businesses go together, and it is curious to see how the magician under certain circumstances, act as rational nature doctors. Among the Narrinyer the physician after exorcism operates by vigorous pressing and kneading of the suffering part. Against rheumatism they use vapour baths over hot stones upon which herbs previously wetted are laid. Cold bathings, scarification, blood-letting are also employed, but care is taken that the blood should never fall to the ground but flow in a network of crossing lines over the body of another man. The fact that different doctors have each his special remedy may have some connection with the *kobong;* one will use a snake, another an ant, a third seaweed, which they employ as friend or protector on every occasion.

Among these races also, the objects of veneration are subject to change. Taplin found that the legends were not nearly so firm and complete in the popular recollection as H. E. A. Meyer, the missionary, had found them twenty-five or thirty years before. The younger men of the present generation know very little of them.

C. MALAYS AND MALAGASIES

§ 16. THE MALAY ARCHIPELAGO

HE Malay Archipelago is the largest island group of the inhabited earth, and both its nature and by its history a portion of Asia, the largest division of the earth. rneo, Sumatra, and Java, islands in shallow water near the mainland, reach up Further India. On the other side of this western division a deep channel forms e border, cutting it off from an eastern region which, in its fauna and flora, nds rather to show affinities increasing from west to east with Australian condi-ns. The connection between Asia and Australia is formed by the two main ains, Sumatra, Java, Timor, and Borneo, Celebes, Molucca, New Guinea, with nich the Philippines are connected as a northern branch in the direction of rneo to Formosa. The races comprehended under the term Malays live on these ands from Further India to the west coast of New Guinea. We meet with them en in the Nicobar Islands under Further Indian, especially Burmese, influences, nile a branch of them peopled Madagascar.

The coast of the archipelago and the islands off the coast afford plenty of ell-sheltered anchorage. The greater or less degree of accessibility has here also t its mark upon the history of the races. Towards the Strait of Malacca matra turns its eastern shores, approach to which is invited by fertile lowlands d navigable rivers. In the Battak country, life was already prospering both in e interior and on the gentle eastward slopes before the colonists were driven by er-population to descend upon the wilder west coasts. The nature of the ground very various, almost all the islands are mountainous. The smaller islands, like mbok and Sumbawa, are merely great volcanoes; nearly all the highest peaks e volcanic and for the most part active. In the immediate neighbourhood of ese mighty chimneys, which hurl out masses of ashes and stones, are the most tile lowlands with their copious civilization and dense population. The struction of 40,000 human lives by the eruption of the Sumbawa volcano in 15, the washing away of 16,000 men by the diluvial waves which followed the uptions of Krakatau in 1883, are no solitary instances. Besides this there are vastating earthquakes and cyclones; it is indeed the chosen cock-pit of the structive forces of Nature. The region from which volcanic activity is furthest moved is found in Borneo and the neighbouring islands; here hilly country evails which as it extends more widely increases to lofty table-lands. Junghuhn cribes to the distinction between mountain and lowland a considerable influence on the races of the archipelago. "The home of the Battaks," he says, "is a ateau with a cool and light air; they have an uninterrupted view to the far stance; their horizon is open, their government is free. But the Javanese live

in the lowlands concealed under the shadow of trees, they are narrow spirit and cling pusillanimously to their domestic hearth." The contrast betwe progressive coast-races having free intercourse with their neighbours and t secluded old-fashioned races of the interior, gives everywhere a measure for t ethnography of the less cultivated northern and eastern districts: the Philippine Celebes, the Moluccas, Banda, and Timor.

A tropical and oceanic position makes it one of the most distinctly trop climates of the earth. In a country where the rainfall is so distributed over t year that no sharply-defined dry season can be reckoned, where a deep alluvi soil retains the moisture, those steaming primeval forests spring up which ha been styled the "gardens of the sun"; enormous forcing-houses full of vegetatio a great zoological garden full of rare and curious beasts. But besides these, the are also regions, like the low lands of Acheen, with their forests peopled b ancestral orang-outans, where malaria and the impenetrable rattan thick harbouring its legions of leeches, have been able to preserve a Malay kingdom independence. In Sumatra, the irregular but heavy rainfall streaming down wit out any monsoon-change, allows but few of the fruit trees, which in the neig bouring Java offer such splendid produce, to thrive. The lowland regions in the districts are traversed by streams the strength of whose flow varies with the mo sharply distinguished seasons, and their recurring inundations make the lar malarious and uninhabitable. Where during the east monsoon you can on progress with labour, you may during the west monsoon sail over broad sheets water, often right through the forests of the inundated plains. Where tidal rive prevail, the coast swamps, also teeming with fevers, form belts of mangroves infecti even the neighbourhood of the cultivated Samarang.

The Malayan Archipelago possesses a flora Indian in character and of extrem variety in a narrow space. The primeval forest is distinguished by a great abundance of palms, many of which man has converted to his own uses. By t banks of the rivers grows the thick-stemmed feathery-leaved true sago palm, o of the noblest and most useful of the palms, the chief habitat of which is found Borneo. More than half the sago used on the earth is supplied by Sarawak. the daily life of the Malays the nipa palm (*Nipa fruticans*) is valuable as materi for building and roofing. The slender areca palm encloses the homesteads, and market of the archipelago is without its nut, known as the Penang nut, or t *sirih* leaves. The bamboo finds employment for the purposes of hut building, f yokes, water-vessels, blow-guns, and various musical instruments. The edib banana is cultivated everywhere; the arenga palm affords the brown sugar of t country. The flower spike is chopped off and the juice allowed to flow throug a bamboo tube, it is then evaporated in metal basins and partaken of as pal wine. In the low lands the coco-palm is widely found; clove and nutmeg al belong to the archipelago, and the bread-fruit tree to its eastern regions; and is one of the most important districts as regards the production of coffee, ric sugar, spices, and tobacco. Rice is the principal article of food, especially in t west, and the native names for it overthrow the theory that this plant and i cultivation were imported from India. Among fruit trees the *durian*, with its da leaves and lofty stem, bears a fruit said to be the best on earth. The *Mus textilis* of the Philippines furnishes manilla hemp. Among timber trees, the tw araucarias of Borneo are of importance in native architecture. The Dyaks mak

black varnish for colouring their teeth from *Chalcas paniculata* and a sort of *Artocarpus*. In Formosa, the mountains of the interior are covered with the camphor tree wherever the devastations of the Chinese have not penetrated. In Java and Borneo arrow poison is furnished by species of *strychnos* and *antiaris*, and the Malays flog thieves with freshly cut sprigs of a shrubby stinging nettle.

Tracts of meadow and heath formed by cutting away timber often have a certain importance ethnographically. In Formosa the Chinese territory is almost treeless, and is planted with tea, coarse grass taking the place of the forest. In the highlands of Sumatra, the extent of the grass land has caused people to infer earlier settlements, since in these regions nothing but cultivation can drive back the forest. The nutritious grass of these clearings has caused them to become pasturage for the abundant cattle and horses of the Battaks; on the other hand, in Borneo, the Dyaks do not venture across the dry moors deep in sand and sparsely covered with scrub, unless wearing sandals of bark.

The elephant, the rhinoceros, the tiger, and the orang-outan are sufficient to indicate the abundant fauna of these islands; it is greatest in Sumatra, where the elephant and tapir form a closer bond with the continent. Game of all kinds, buffalo, wild boar, roe and dwarf stag, are frequent in the less settled districts of Borneo and the Philippines, while monkeys and squirrels abound in the palm forests. The shores afford fish and shell-fish in profusion, and also valuable trepang and tortoise-shell, which called into existence from early times a brisk trade with China. The trepang fishery has brought Malays from Macassar, as far as Australia. Nor must we forget the edible swallow's nest of Java.

§ 17. BODILY CONFORMATION AND INTELLECTUAL LIFE OF THE MALAYS

The Malay race—Comparison with the Polynesians—The true Malays and the Alfurs—Social and foreign influences—Indian, Chinese, Arabic, and European—Character—The civilized and the savage Malay—Religious notions—Intellectual capacity—Language—Writing—Literature—Art—Dances and games.

THE full description which we have given of the physical appearance of the Polynesian races makes it almost superfluous to do the same for the Malays,[1] since both belong to one stock. However far they may have separated geographically and ethnographically, they form, in respect of bodily characteristics and language, one Malay and Polynesian group, though an admixture of dark negroid blood is not absent from the western Malays as far as Malacca. But, on the whole, the population of the Malay Archipelago has preserved the character of the light brown, straight-haired, slim race of medium stature, in greater purity than that of Polynesia, which being numerically less and further from the point of origin, is for both reasons more accessible to effective crossing.

The colour of the Malays may be called light brown, though there are varia-

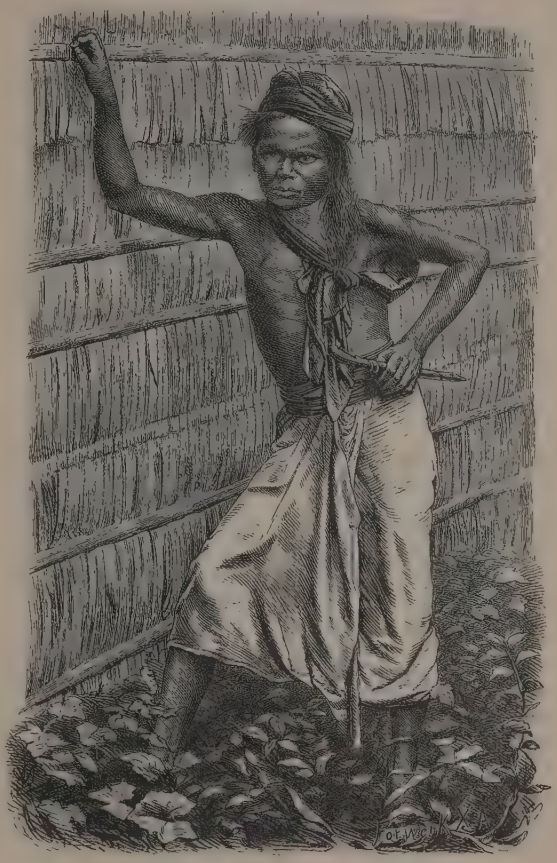
[1] The name Malay denoted originally a small tribe of Sumatra. In Valentyn's time it was applied especially to the tribe in the gold region of Sungei Pagu, but had already migrated to the coasts of Borneo, Sulu, Ternate, and Tidor, with the emigrants from Menangkabor and Malacca. In the mouth of Europeans the most civilized race gave its name to the whole population of the archipelago. The etymology of the name Malay is obscure.

tions. The people of Acheen and the Battaks are dark compared with Javanes or Dyaks, and in general a dark tint of skin is more frequent in the east than i the west. Many Javanese are straw coloured, but the differences are by n means great, and tend to vanish. Considering the influence which social ran exercises here also upon physical characteristics, they only acquire a deepe interest where they are combined with other peculiarities. The Acheenese an the Battaks are alike bigger and stronger than their neighbours; the ligh Javanese are smaller, while the still lighter Formosans and the Tagal half breed of the Philippines, with their mixture of Chinese blood, are better grown tha their Tagal neighbours. The hair is more decidedly straight than among thei Polynesian kinsfolk; similarity with the Polynesians is marked as regards th curly but not woolly-haired races in Ceram, Gilolo, Timor, and Amboyna, a these instances occurring in the eastern part of the archipelago. On the othe hand, harsh straight hair, according to Riedel, characterises the people o Timorlaut; among the Dyaks we find wavy hair with a Semitic type of face In the region of transition the hair is the most striking of all marks of race, eve for the natives themselves, whence the name "Papua." When we get west o the Aru and Key Archipelagos we do not meet with true curly hair again till w are among the Orang-Panggang and Semang in the interior of the Mala peninsula. In Ceram, Timor, and Allor, the prevailing hair is rather wooll than curly, forming wigs sticking out in every direction, of vast circumference; i fills a wide zone between the Malayan and Papuan regions, and is connected b Virchow with the Veddahs in the north and the Australians in the south. I their stature, 5 ft. to 5 ft. 8 in., the Malays are inferior to the Polynesians; th smallest seem to belong to Amboyna. The form of skull is mainly brachycephali even to excess, but this is chiefly by artificial deformation. Long heads hav been proved to exist among the Igorrotes of Luzon and the Ceramese, mediu in the Moluccas and Timor, that is in the east.

The question as to the original inhabitants of the archipelago has, except s far as regards the poor, hardly recognisable remains of it formed by the dar woolly-haired men to the eastward, been temporarily removed from the programm of ethnography. Papuan elements have permeated freely, especially in Cera Tidor, Ternate; expressions like *bastard* Malays, *bastard* Ceramese are familia to students of the subject. Papuas have invaded these regions as pirates an been imported as slaves. The origin of the scattered, dark, wavy, and woolly haired people on the east side of Luzon, in the interior of the Malay Peninsul and on Timor, is uncertain; if the Orang-Semang of Malacca, whom Staven has recently regarded as hybrids of negroid races with Malays, owe their Malaya resemblance to the neighbourhood of civilization, his idea has less anthropologica value. The same is the case with the Negritos of the Philippines, and perhap the Igorrotes stand nearer to the original population than they do. The name Negritos and Alfurs, which were once thought to imply negroid elements, ofte indicate in reality only straight-haired Mongoloid people in a low state o civilization.

The unity of the Malayan races seems, at the very first glance, to be supporte by their outward appearance. They are a highly-mixed race, and they hav been pointed to as the best example of an artificially formed stock, and compare with the results of recognised race-breeding. In any case there certainly remain

onspicuous a widespread similarity and symmetry of form. Where, in islands ike Sumatra, traces appear of two strata of population, the only evidence for this s to be found in language and customs. Countless interminglings have taken place here, Malays and Battaks mutually pressed each other on to the high plateaus in Sumatra, and retired to the west and east coasts. The Lubus say hat they migrated from Eastern Sumatra in three bands, the Philippine tribes ought the coast under the ttacks of savage mountain tribes, and others again or the sake of trade and commerce; volcanic eruptions, earthquakes, hurricanes, inundations, famine, drove thousands into distant egions, and caused deserts which had to be replenished again by immigration from vithout. The Mahometan nvasion forced the Bajus, small people of Sunda, n to the almost inaccessible orest plateau of Pangeleran. The Orang-laut, a blend f homeless people, chiefly vith Malay elements, are he Vikings of these seas, nd their traces are found lmost without exception in he islands. Like them vere the Sikas of Borneo nd the Wajus of Celebes. The genuine Malays, even vhen they had acquired ettled dwelling-places, took o a sea life by inclination. Fishery, trade, and piracy are among their favourite occupations, their agriculture is imperfect, and f there ever were pastoral races among them there are none now.



A Battak of Sumatra. (From a photograph.)

A survey of all these influences makes it impossible to avoid the conviction hat, however homogeneous the population may be on the surface, we must, in considering it, assume repeated mixtures. This consideration is necessary, not heoretical, and is always gaining in force. Thus we have like and unlike elements constantly permeating each other, and as the result, a progressive wearing down f differences.

Further, racial divergences in two directions have been due to social influences. Hard and regular labour stamps particular peoples with the traits of civilization

almost to the point of malformation. Thus the Milanos of Borneo are far inferi to the Malays in stature and in regularity of feature. They are light-coloure but the tint is often unhealthy. Passing their whole lives in treading or pressin sago from the pith of the palm, they get broad feet ; they are thick-set and dwarfis The Javanese and Madurese, highly cultivated, and exposed for centuries t Indian, Chinese, and European influences, are of a more elegant and dignifie build than their neighbour That the Orang-laut, th maritime Malay of th peninsula, who spend mos of their existence on th water, should be dark coloured, is but natura Forest and mountain tribe are changed by their wil penurious, irregular lif Thus too, the Lubus, th Utos, and to some exten the Bajus, also the variou tribes of the Philippine whom the Spaniards incor rectly lump together unde the name of Igorrotes, ar very pariahs in outwar appearance. But it will no do to base divisions int races and sub-races on suc slight variations.

A Dyak of Borneo. (From a photograph in the Damann Album.)

What we must firml hold is the profound effec of influences from the con tinent of Asia upon the mor westerly regions ; whereb the Papuan affinities will, a a matter of course, be mor noticeable in the east. Fron East Java, the seat of th true Javanese populatio which does not belie it Indian schooling, civilizing influences radiated, affecting profoundly not only inte lectual activity but also agriculture and manufactures. Indian traces in Borne Sulu, Sumatra, the Philippines, most of all in the ruins of Bali, point back, bot in speech and in writing, to the Indian kingdoms in Java. Beside these ther was in Sumatra, as is shown by the very independence of the Battak writing, central point, perhaps of less grandeur, but of considerable importance. Fantasti as it is, the Malayan chronicle has some ground for dividing the world into th three empires of Rum (that is Rome including Constantinople), China, and Pul Mas or the Golden Island, the empire of Menangkabau. Probably Malays, c

Javanese, or both, were the agents in bringing here the elements of the higher civilization. Malay traces in Borneo testify that not every kingdom which tradition and history show to have existed there, owed its foundation to the Chinese only. The soil of Sumatra, too, gives up in increasing quantity sculptures of Indian Brahmanic character. Throughout the Western Archipelago the Malays are only poor foreigners upon a territory once rich in culture, whence, down to the fifteenth century, noble temples and palaces rose. W. von Humboldt found it probable, from a comparative study of the language, that there was an old connection between the Malay races and those of the Sanskrit stock. Then, since the home of the genuine Malays must be sought in Sumatra, the tradition of relations between that island and India gains in significance, and therewith the assumption of several centres whence Indian civilization was diffused, becomes probable. In point of date the Brahman foundations in Java and Sumatra must fall near together. At present only the Klings, who are Tamils, are strongly represented in Malacca and Java.

Chinese influence is greater than appears upon the Malay population. The Chinese drives no propaganda, and does not put himself forward; but his effect goes all the deeper. Formosa and Manilla are witnesses to the progress of the Chinaman. The Chinese-Tagal hybrids are a very numerous race, extraordinarily efficient and superior to the half-breed of European blood. Even in a number of the Philippine peoples, such as Tinguians and Itanegs, Chinese blood is suspected. Hogan reckons 300,000 Chinese half-breeds in the Dutch East Indies. Chinese trade is known to have reached Java, Sumatra, and Malacca before the end of the tenth century of our era. Political relations, amounting to dependence, came about between the small island states like Sulu and China. In Borneo actual kingdoms sprang from the settlements of Chinese gold-diggers. Banca, Billiton, and the tin districts of Malacca, on the mainland, were, and still are, worked only with the aid of Chinese organisation. The sago trade and sago refining, the tortoise-shell and trepang trades, may almost be regarded as Chinese monopolies; and still more the opium trade, which even forty years ago was in the hands of pure Malay tribes in the peninsula.

Weapon used by watchmen in Java to catch persons running *amok*. (Stockholm Ethnographical Collection.)

Since the fifteenth century the Arabs have, in spite of their small numbers, acquired a great moral importance as bearers of Islam. With the multitude they are undoubtedly in the greatest esteem. It is hard to say whether a Chinese or an Arab is better at trading; but as a strict Mussulman the Arab certainly holds the more important social position. In spite of opposition on the part of

Christian missionaries, Islam has, during recent years, acquired almost exclusive possession of wide regions in the interior of Sumatra ; and the eastern Sulu Islands have, for a long time, been rightly called the Mecca of the East.

Europeans have only founded settlements in these beautiful tropic lands. In Java or Celebes, as in India, there are but few Europeans who are willing to finish their lives in the country and found a family. People go there merely to govern and to make money, especially to the Dutch East Indies. The Spanish and Portuguese have assimilated themselves much better to the natives, and the Spanish Tagal half-breeds in the Philippines may be reckoned by the hundred thousand. It is not clear whether Nature forbids the formation of a mixed race from Germans and Malays ; Riedel found in Kiser a half-breed colony of Dutch, French, and Germans, dating from the end of the seventeenth century, but the climate prevents northern Europeans from taking deep root. For this reason the influence of Europeans has done very little good in the richest countries of the archipelago. The native was there only to be used and used up, not to be improved. Indigenous trade was made to serve foreign interests ; agriculture and industry were supported only so far as they promised immediate profit. The only benefit conferred was peace, under the protection of which the population increased, and still increases in Java, Madura, and Celebes ; in recent times also with extraordinary rapidity in Sumatra.

The fundamental traits of the Malay character have much resembling the Mongol ; he is gentle, peaceable, quiet, and civil, submissive to authorities, and rarely disposed towards crime. But to this must be added a tendency towards suspicion and—its twin brother—lack of frankness. Other points are taciturnity, quietness in assemblies, formality in intercourse. The free Malay is marked with a more savage stamp ; many tribes show a warlike strain, as evidenced in the life of piracy which some follow, the difficulty of subjugating many Battak, Alfur, and Tagal races, and the excellence of the soldiers from Amboyna, Macassar, Madura, even Java. Concealed savagery often comes unexpectedly to light, and then we are inclined to doubt of the possibility of educating them to civilization, and are even disposed to doom them to extinction. The wild fury of the *amok* runner, blind wholesale murders, are sudden breaches in the cold husk. Even though the cannibalism of individual tribes may form no essential trait in the general character, the practice of such a custom, in an otherwise high state of civilization, remains a sign of a cruel disposition. The Malay's power of work and delight in work, has often been unfavourably judged. The brisk activity in trade shown by certain Malay tribes, especially the Bugises, cannot blind us to the fact that a genuine impulse to energetic labour is not much more native to the Malay than to the Negro, and that he prefers to do only so much as the day requires. But with the sweating system in vogue, a distaste for labour is often only a distaste for compulsory labour ; in the Philippines a slight increase in wages exercised a great attraction for the native labourer, and Sarawak, under skilful management of free native labour, produced great results in the domain of agriculture.

The religious temperament is not everywhere alike, and here, too, religious disposition is various. It may be said that the Dyak has more religion than the Battak ; at least he shows more outward manifestation of religious need, but his religion is decidedly worse than that of the Battak, upon whom it still exercises

ome slight moral influences. Thus it is said that the inhabitants of Timorlaut lo nothing without prayer or sacrifice. The true Malays of Borneo, even when hey dwell near the Dyaks, have accepted Islam more cordially than have these atter, who, in spite of their turbans and their pilgrimages to Mecca, have remained ieathens inwardly. Even in that Mussulman fanaticism, which has actually caused ears for the European sovereignty in the Dutch and Spanish possessions, the

A Calinga of Luzon in the Philippines. (From a photograph in the Damann Album.)

ribes vary much. The most fanatical are the true Malays; the hardest to convert, ne Battaks, among whom Islam has made the slowest progress. In the Sulu slands the Spaniards had to contend with assassins in the shape of the *Moros uramentados*, who had taken the oath to slay Christians. In Acheen the eople are fairly tolerant towards those of another faith. Pilgrimages to Mecca ave become very common among the Malays, chiefs give large sums to defray ne pilgrims' journey, and a Hadji who has visited Mecca is now almost sure to e among the domestic staff of a rich man.

Intellectual capacity shows itself mainly in the gift of annexing foreign culture they are good imitators in everything ; they have even reached a certain dexterity in counterfeit coining. The different religions have made their way rapidly and close upon the heels of one another. It is some decades since English missionaries in Madagascar had to take steps to prevent the diffusion of Paine's *Age of Reason* and other works of a free-thinking nature. Self-control is expressed in every-day life, and the oriental talent for tranquillity and moderation is retained, however hotly passions may seethe in their hearts. Their address is courteous, in the higher rank fastidious. Eloquence is native to the Malay, the language loves repetitions of varied forms, and thus preserves even an unintelligent flow of talk from faltering.

The calculation of time is simple among the forest-tribes. They reckon the day from sunrise to sunset, and longer divisions of time according to the recurrence of full moon, and the dry and rainy seasons. The solar year is of Indian introduction. From the same source came writing and the elements of religion, as well as the designation of the eight regions of the heaven, the signs of the zodiac and the month of thirty days.

The identity of the Malayo-Polynesian language from Easter Island to Madagascar, from Formosa to New Zealand, is beyond question. Forty dialects may be spoken in Timor or eleven in Aru, but a fundamental agreement prevails. All belong to the Agglutinative family. Root-words undergo little or no change, but new words are formed by means of prefixes, suffixes, insertion, and reduplication. The radicals are, with few exceptions, disyllabic, and do not show their grammatical value in this form. Quite a hundred derivatives may exist for any root. Juxtaposition of consonants is avoided. Case, number, and gender are not expressed by inflection. The marks of Malayo-Polynesian languages are euphony, simplicity, vagueness. These apply especially to Malay in the stricter sense, which for that reason has succeeded in becoming the *lingua franca* of the archipelago. Some of the differences may be referred to admixture with foreign elements. In the Tagal dialects we find Chinese and perhaps also Japanese, while Sanskrit and Tamil elements make up more than 40 per cent of the vocabulary of the westerly islands. Including Arabic, Chinese, and Dutch, the percentage of foreign words in many dialects must be over fifty. The frequent shiftings of population cause linguistic changes ; and further, pronunciation constitutes a ground of difference.

The most various views have been expressed in regard to relations of the branches of the Malay family of languages towards each other. The dialects of Occania are probably to be regarded as the older forms, while those of the west Malays have become modified by continental influences in a higher degree. The most important groups are the Tagals of the Philippines, to whom the Formosans and Sulu Islanders are akin ; and the Malays of Malacca, to whom belong the Acheenese, the Rejangs, and the Lampongs of Sumatra. Akin to the Javanese are the people of Bali and Madura, and to a less extent those of Sunda in West Java. The Macassarese and Bugises of Celebes form a companion group. To the Battaks of Sumatra belong the inhabitants of the Nias and Batu groups. Borneo belongs by origin to the Dyaks. Lastly, the Alfurs spread from the north of Celebes over the lesser archipelagos to New Guinea. In respect of language, the people of the Nicobars and the Tsiampas in the east of Further India are near to the Malay family. The influences of civilization have brought the

t race together in larger groups, which we can distinguish as West Malays ect to Indian influence, North Malays to that of China and Japan, and East ays lying out of the reach of either.

A great many of the races of the Indian Ocean have mastered the art of ing, which has reached them from India; as, for instance, the higher tribes of natra, the Javanese, the people of Balu, and the Visayas, the Bugises, and the als. Humboldt long ago called attention to internal differences; were these uired directly or indirectly, and have they undergone further development? most cases we may assume a ndary outflow, probably from a, whence, even in historical times, erful influences have reached to natra also. Later, owing to the ad of Islam, Arabic became the al writing among the genuine ays, and most recently Dutch ence has brought Roman char- rs into use. The material on ch the letters are inscribed is , bamboo-bark, or *lombar*-leaves; a stuff like parchment prepared n bamboo. The ruder tribes do out writing. As a substitute it, knotted strings are used in am, Formosa, and elsewhere.

Tabongs, with Rejang characters, from Sumatra—four-fifths real size. (Munich Museum.)

As to an independent Malay ature, so far as it has any ial character, it is too insignifi- and too much in one line to for mention; being limited to nds, anecdotes, and books of ic. Indeed, until at Marsden's igation the legal customs of the angs, Passamahs, and others were ected a hundred years ago, there ns to have been no written Malay law; though Arabic writings upon law other subjects had already been translated into Malay, Javanese, and is. Their poetry mingles Indian with Arabic forms. The greater poems, the mythic-historical and descriptive manner (*Sjiar*), consist of four-lined zas, the lines as a rule rhyming; the lesser celebrate gods or men, contain ections on the nothingness of the world, the unkindness of fortune, love, and like. Here the oriental parallelism of thought recurs in double strophes with character of recitative. In their singing too a recitative, mostly nasal and vling, predominates. The imagery of their love-songs awakes reminiscences the Koran or the Song of Solomon. The Javanese affect a vowel rhyme the fabulous ballads, in which they represent the period 500 years ago as remote mythical antiquity. The Pepos of Formosa, in songs composed in Malay tongue, chant the moonshine and sunshine, the forest and liberty, and

the heroic deeds of various great chiefs. While Indian pantomimes are produ at the courts of Javanese princes, the Spaniards have naturalised their Moor-dra in the Philippines no less than in America, setting forth in endless variati fights between Christians and Mussulmans, spiced with amatory episodes. *Wajang* actor illustrates the old heroic legends in puppet-shows with flat leat marionettes of grotesque form and colour; using artificial stimulants to ena him to recite and act all night long. Every Javanese court possesses a player this sort. In the tales, beasts play a great part. In the beast-fables, wh Riedel has collected from the Minahassas and others, there are mythological tra reminding us of similar tales in South Africa and America; the place of the jac or coyote being here taken by the monkey. A great many others in the west islands deal with elephants.

All this has, no doubt, among the more advanced tribes, been preserved i pretty much unaltered form by means of writing, but it is, for the most par treasure of which no one now knows the right use. The sole importance writing is that it prevents the monuments of past times from perishing utter and it has certainly contributed to keep a race like the Battaks at a cert elevation, after their closer connection with their native civilization had b loosened.

Mother-wit is attested by various proverbs. "Escaping the jaws of alligator to fall into the fangs of the tiger"; "When the junk founders, the sh gets his dinner"; "The net calls the basket a coarse bit of work"; "What us it for the peacock to swagger in the jungle?"; "Can the ground turn itself i iron?" A coward is called "a duck in spurs"; a tricky person "sits like a and springs like a tiger"; of a chatterer, "The turtle lays a thousand eggs and one knows; the hen lays one and tells all the world." A bit of fatalism is, "E the fish who lives at the bottom of the sea comes to the net at last."

Nothing speaks so plainly as their sculpture, of a descent from a higher le We can see what Malay races under Indian influence achieved 600 or 700 ye ago. Not only do we find mighty ruins, and finished statues in stone or bron but highly conventionalised forms appear even in the simple ornament with wh the Alfurs beautify their wooden sepulchral monuments and stone coffins, ric and more regular than any that the art of "natural" races produces; and t influence appears in operation as far away as New Guinea. Among the Dy we find a specially rich development of art in their wooden shields, the shea of daggers, krisses, and spears, carvings of every kind, and iron blades. It interesting for its suggestions of China; thus the Dyak dragon-ornament see to be of Chinese origin.

The modern temples of the Brahmanic Siva-worship are not comparable the monuments of a great age. Their premises are extensive indeed, but mod The famous settlement of the gods at Vator on Bali, the object of numer pilgrimages, consists of many open spaces, separated by hedges and enclo within a high wall. In these stand square pillars with niches, and oven-l shrines with a small hollow space above. Besides this there are stalls ligh built of bamboo, where the pious eat and sleep during the festival, which lasts days. In the older buildings the most ornamental thing is the porch, with t octagonal side-pillars of vast thickness, set round with statues, and having stepp cornices, with reliefs in niches and other ornament. The most magnificent or

ent of those periods is the temple, with its ecincts at Burubudor, near Jokjokarta in Java. his dates from the eighth century, and forms enormous group of five ledges running in oken lines, with 555 niches for life-size images Buddha, and narrow galleries with carvings the most artistic kind. The bas-reliefs, if aced in a row, would extend to a length of er three miles. Like the Indian *topes*, this gantic monument was intended to receive a cred memorial of Buddha in a reliquary; and e five rows of steps were for the procession mount up and go round by. The palace-ildings, again, however spacious they may , have at the present day little that is onumental about them. They remind one of e palaces of negro chiefs; instead of one hut, ch as the subject inhabits, we have a hun-ed. If any architectural flights occur, it is here, during the last century, not Indian but hinese themes, and latterly misunderstood eas from Europe, have made their way in. palace of this kind is an entire city, enclosed walls like a fortress, surrounded with bar-cks, traversed by courtyards and garden. It ntains a population of officials, attendants, d hangers-on, and consists of courts sur-unded by galleries and detached dwellings, corated with plants and flowers in Chinese d Japanese pots, aviaries, wretched kiosks, d deformed trees.

The musical instruments of the primitive alay tribes do not reach a higher level than ose of Melanesia. The Ilongotes play upon piece of bamboo, in which they make strings incisions in the outer bark, and they also ake flutes of bamboo. Among the mountain bes of southern Luzon we find an instrument calling the *gora* of the Hottentots, a dried alk of a scitamineous plant bent into a rve by using a tendril as a string, and a half co-nut shell attached thereto to give reson-ce; with the addition of a stick we have the re and plectrum in its most primitive form. he nose flute and Pan-pipes, as well as a itar of poor tone with two strings of rattan, e found in Borneo, Celebes, and Java. mong the Dyaks the Pan-pipe is provided

Magic staves of the Battaks, used especially for weather-magic, and also borne in war—$\frac{1}{5}$ real size. (Leip. and Dresd. Mus.)

with a gourd for resonance, and the single pipes with holes like flutes. T Battaks have a violin and a guitar, each with two strings; the alarm drum called *tabu;* tom-toms and gongs have become common through Indian or Chin influence. The highest development of music in the Indian style is found at t courts of the rich chiefs. The *gamelan* or *gamalang*, the orchestra of a prin in Surakarta, consists of copper bowls of all shapes and sizes; rows of copp discs from 2 inches to 1 yard long on bronze stands; planks of resonant woo resembling in their arrangement the African *marimba;* gongs, large and sma 4 inches to 6 feet in diameter; and lastly, two-stringed fiddles. Big drums al belong to the *gamelan.* The orchestra starts at a given signal, a hurly-burly strange tones—loud, soft, silvery, wailing—ensues, amid which is heard t bellow of the gongs. It is seldom that any melody emerges. From time time the screaming voices of the women accompany the doleful music. Borneo and Celebes we find in the place of this Javanese orchestra only t gong and a kind of wooden harmonica; in the Philippines Chinese music cultivated.

Dancing among the genuine Malays is participated in by the men only, b in Java and in the east by both sexes. At court festivals in Kutei, Dyaks appe in weapon dances, as well as the sultan's *première danseuse* from Java. Dance a pantomime merge into each other; the dancers are also comedians, and the dan is almost always accompanied with singing. In general the dances are much t slow for our taste, and this is true even of the weapon dances with spear or kri Deportment rather than grace is their prevailing feature; the taste for min dances, in which individual muscles rather than the whole body play a part, here carried to an extreme, it is the refinement of oriental over-civilization. T people, however, both here and in Formosa, are still acquainted with wild rou dances; the Malays like festivity and play, but unbridled merriment is not their nature. Indolence and indifference are the faults specially reprehended the church festivals of the Philippine Malays; still there are distinctions even this, the true Malays are more serious than the less restrained Dyaks; and, general, life is cheery and bright in the east, in the west more taciturn and suspicio At the popular feasts on the conclusion of the fast, and at their accession, t princes receive and feast everybody. At another feast both sexes live in the op country in tents and huts, they pay visits, sing to the tambourine and the viol while dance, pantomime, and song last whole days and nights. The *toku*, which danced at funeral rites in Halmahera, consists of circling round and forming chai from evening till late in the morning. The funeral dance of the Alfurs is danc in a closed circle, which revolves continuously from right to left with shouts, wh the orchestra, composed of old women, sits outside. In Celebes the weapon dan with shield and sword, such as is usual throughout the archipelago, displays sign of melancholy or listlessness; the whole body is in movement; leaps, bendin and twistings in every direction are executed; and the face exhibits the wild grimaces. Where head-hunting is customary, the very boys have a dance imitation of the practice in which a coco-nut represents the highly-valued obj of pursuit. If a skull has been captured, betel and tobacco are offered to during the dance as an act of conciliation.

Gambling is a prominent trait in the Malay character, legislation has ev been found necessary to check its excesses, and by the common law of t

edjangs, all games, except cock-fighting, are forbidden under heavy penalties. ut cock-fighting is something more than an ordinary game, the prince and all s great men frequently assist at it. At the court of the Sultan of Kutei mains e fought every day; sixty fine cocks are every day washed and carefully fed. n the evening people assemble to play something resembling heads and tails, or me game with Chinese cards, always for a stake—prince playing with commons, ildren with old people. The cock-fights often take days to decide, even more time, ouble, and money is required in the settlement of controversies and bets accord- g to elaborate rules, the place is at once a gambling-hell and a stock exchange. o event seems too great or too small to afford an excuse for the sport. The cks are fitted with steel spurs, which are rubbed with lemon-juice to make the ounds more painful. In the Battak country special huts are set apart for the ort, standing by some frequented road midway between two *kampongs* or villages. Ve find also among the Malays a great variety of board-games, including chess. he top is widely diffused. Games of football are customary among the Tobak- attaks.

Beast-fights, imitated from India, take place at the courts of the princes. ven tigers and rhinoceroses are brought into the arena, especially in Java; while Madura they have bull-races. At the tiger-baits, or *Rampok*, men armed with rong spears, four deep, form a square 150 to 200 yards in the side. The two ont rows kneel, the others stand upright. In the middle is a bamboo cage vered with straw, and having its door fastened only by a thin cord, in which the tiger. At a given signal the *gamelan* strikes up a slow martial melody, nd two men set fire to the straw. The sparks excite the tiger to fury; he leaps p, and shakes at his prison until the flames reach the cord and the door bursts pen, allowing him to bound out and fly at the two men, who are retreating in me to the music. They take refuge behind the row of spears, which closes up ter them; and when the tiger attempts by a mighty spring to break through the ving wall, a score of spears pierce his breast.

§ 18. DRESS, WEAPONS, AND OTHER PROPERTY OF THE MALAYS

ress—Stages from Ilongotes, Utos, and their allies to Javanese and Formosans—Indian and Chinese influences —Weapons: *kampilan* and *kriss*, bow, blow-gun, arrows, poisoned arrows, spears, shields, and general equipment—Architecture: pile buildings, free dwellings—Household implements—Agriculture: paddy fields, harvest festival—Cattle-breeding—Hunting and fishing—Food, tobacco, betel, opium—Industrial conditions: iron industry, pottery, weaving and dyeing—Trade—Bugises and Malays—Money.

MALAY costume fluctuates between nudity and superfluity, since sundry Arabic nd Chinese influences have overspread the simplicity of the natural race. Where he population has come least into contact with these, or has been kept back by ndolence, we find the simplest conditions. But we also see how these are always treating, so that even the backward mountain tribes of the Philippines, whose bin-cloth is scarcely sufficient for decency, have partially begun to wear clothes. t is reported of the head-hunters of Luzon, the Ilongotes of the Principe province, who are real savages, that all their clothing is a band of beaten bark, while

immature boys and girls go stark naked ; yet when one of them has occasion to go into one of the neighbouring Christian villages, he puts on a shirt and trousers. The Formosans again vary between a scanty band and abundant clothing, according to the season of the year and the nature of their work. The Lubus of Sumatra, who but ten years ago wore only a narrow girdle of bark, are now dressed after the style of the Battaks ; but bark and skins still play an important part over large districts of Borneo. The Ceramese wear plain belts and thigh-cloths of bark ; the women, by way of further clothing, have a piece of bamboo hanging from the girdle ; the children, who run about otherwise naked, wear just the minimum of covering.

A Calinga woman of Luzon. (From a photograph in the Damann Album).

Among the wandering Utos of South Borneo—the dreaded bearers of the blow-gun, men and women have *chavats*, woven of bast, while a deer or panther skin cover the upper part of the body ; a head-dress of fur, with the tail feathers of the hornbill stuck upright in it, forms part of a costume befitting hunters. The Dyak women wear round their breast and neck a tissue adorned with beads and teeth which hang down the back ; the Maanjans of south-east Borneo have a sleeveless jacket of bark cloth in addition to their kilt, while the women wind about their hips the *tapis*, a smaller edition of the *sarong* made out of home-woven tissue. Men of the wealthier class have jackets with sleeves, and their women breast-handkerchiefs. With the invasion of the Bugis element into Borneo short trousers have been adopted by many of the natives, all the more readily from the fact that these active inhabitants of Celebes have for a long while carried on a trade in the requisite materials.

In the more westerly parts, clothing is very different. In former times, Indian and Chinese stuffs came hither in great quantities, now *sarongs* are brought from Europe by the hundred thousand. In the country itself there is a flourishing and highly developed industry in weaving and dyeing ; in Malacca, Sumatra, and Java, and in the smaller islands, the Malayan Bugis colonies, on the coast of Borneo and other islands, clothing consists of the sack-shaped sarong, which is worn in many tasteful forms. Among the more advanced, short wide trousers and a jacket

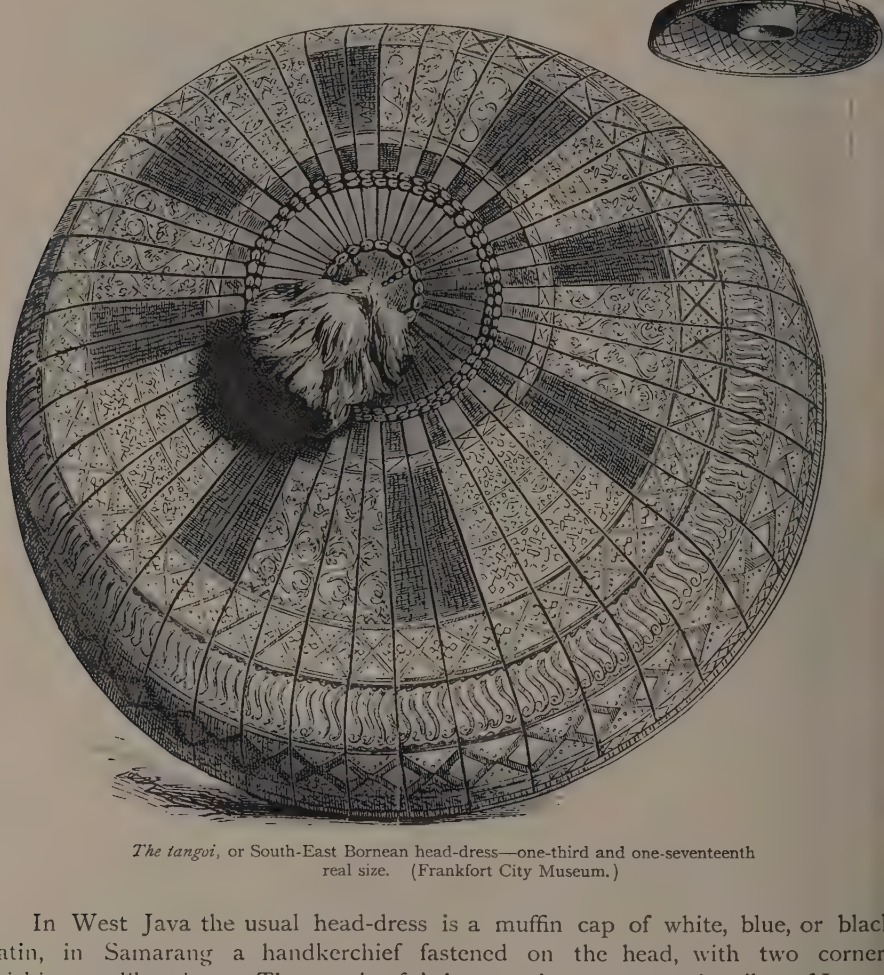
e added to this; other usual articles of clothing are a head-kerchief, a narrow
oth called *slendong*, in which babies are carried; sandals, a scarf or binder round
e body, and a hat of leaves or rattan. Among the Tobah Battaks, whoever
n afford it wears a smarter coat as fighting dress. The quality of the material
stinguishes the rich from the poor, and, as in China, yellow distinguishes the man
rank from the plebeian. Cotton is, however, preferred for the *sarong*, since it is
t lawful to pray in silk. Finer materials are reserved for the families of princes;
omen often wear only the sarong. A jacket fashioned in front with a button or
ooch and trimmed with gold is often worn, while valuable hairpins and bands,
rrings, and also handsome finger rings, form their ornaments.

Differences of dress extend also to the colours, which in many regions are
iking in their variety,
ile elsewhere, as among
e Malays of Sumatra,
ack is usual. Often there
e very sharp distinctions
ornament, such as a tuft
feathers, flowers in the
ir, and so on. In the
rth-east, Arabic influence
akes itself felt; the dress
the Sulu islanders, which,
e that of Mindanao, con-
ts of turban, jacket, wide
ousers, and a cloak like
burnoos, was at one time
ld to corroborate the idea
their Arabian descent.
ne Bugises of Celebes
ve imported their short
oth trousers into Sumbawa,
ores, and other places,
ile their trade has
ven a specially wide diffusion to the chequered *sarongs* of Macassar. In the
ost northerly parts, inhabited by Malays, namely in Formosa, we find Chinese
finities clearly expressed in trousers, shoes, and embroidered blouses. Here
e black head-kerchief, as well as the turban, is favoured by both sexes.
mong all the modern clothing, relics of the primitive dress often continue
lead a stunted existence. The bark girdle, which the Alfurs of Ceram
t on with ceremonies in their fifteenth year, as a sign of maturity, has now
rned into a meaningless thread worn under the cotton jacket and the *sarong*.
the same way, the women of the Andamans wear under their Christian clothing
eir old fig leaf in the shape of a bunch of leaves, while the children of well-to-do
alays have a gold or silver plate fastened by a chain round their bodies.

Toangos of Northern Sumatra. (From a photograph.)

The modes of dressing the hair are manifold. Usually all hair except that of
e head is removed; the Tagals in Luzon keep the hair of the head short; the
mbals leave one long lock; the Shekwans of Formosa, following the Chinese
stoms, shave the front of the head and draw the hair into a pig-tail. On the

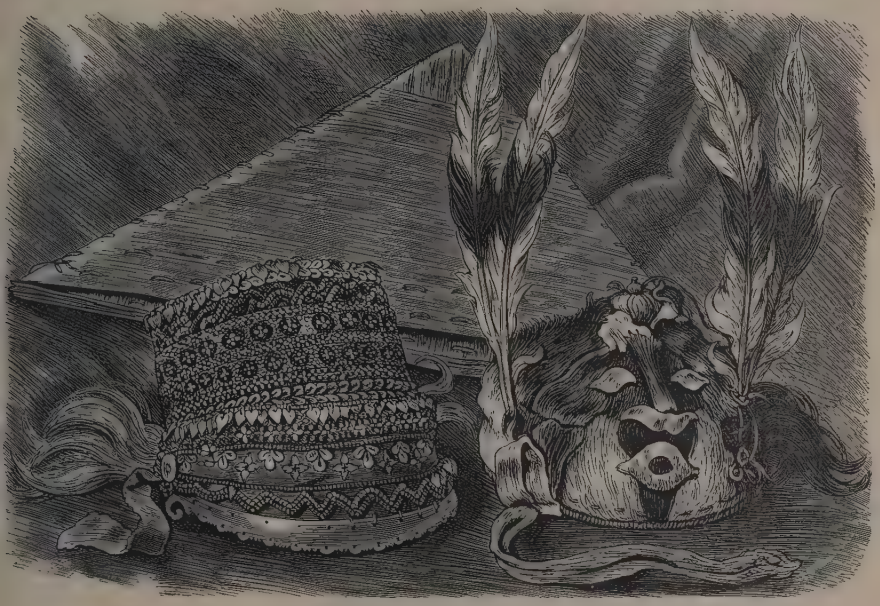
other hand, the women dress their hair in a fashion which recurs in the Philippine in Celebes, and in Borneo. Part of the hair is combed down over the forehea and cut in a fringe over the eyebrows, the rest is tied in a tight knot at the top the head. On their heads they wear a square black handkerchief, the two corne of which are lightly fastened together at the back of the neck, forming a sort cap which throws a deep shade on the face.



The tangoi, or South-East Bornean head-dress—one-third and one-seventeenth real size. (Frankfort City Museum.)

In West Java the usual head-dress is a muffin cap of white, blue, or blac satin, in Samarang a handkerchief fastened on the head, with two corner sticking out like wings. The people of Acheen, and some mountain tribes of Luzo wear a little cap of the peculiar shape shown on page 399; the Battaks, a cloth wor like a turban. Among the Sumatrans of the interior, the chiefs place on thei shaven heads little caps plaited of rushes and embroidered with gold. Th women of the Bornean tribes wear large straw hats with brims a yard wide. Th Tagal caps are perfect segments of spheres. Straw caps, like those worn b miners in Germany, are found in Borneo and Luzon; pointed hats with tufts o

black palm fibre in Sulu. The women of Java gather their hair into a knot; the Tagal women wind their long sleek black hair in two loose strands round their heads, and fasten it usually with a ribbon worn like a turban. In the Philippines, the Sulu Islands, and among many Mussulman tribes, the turban is in general use. In Sumatra, the mode of dressing the hair varies from one province to another; sometimes it falls to the shoulders, sometimes it is cut short. In the twelve Kotas the ladies roll their hair into a coil and wrap it round with a piece of cloth, while in the contiguous provinces they plait it into a pig-tail on one side of the head. The Alfurs of Ceram also tie their hair to the left; but for men, the most usual fashion is to wear the hair in a tight knot, under a head cloth, into

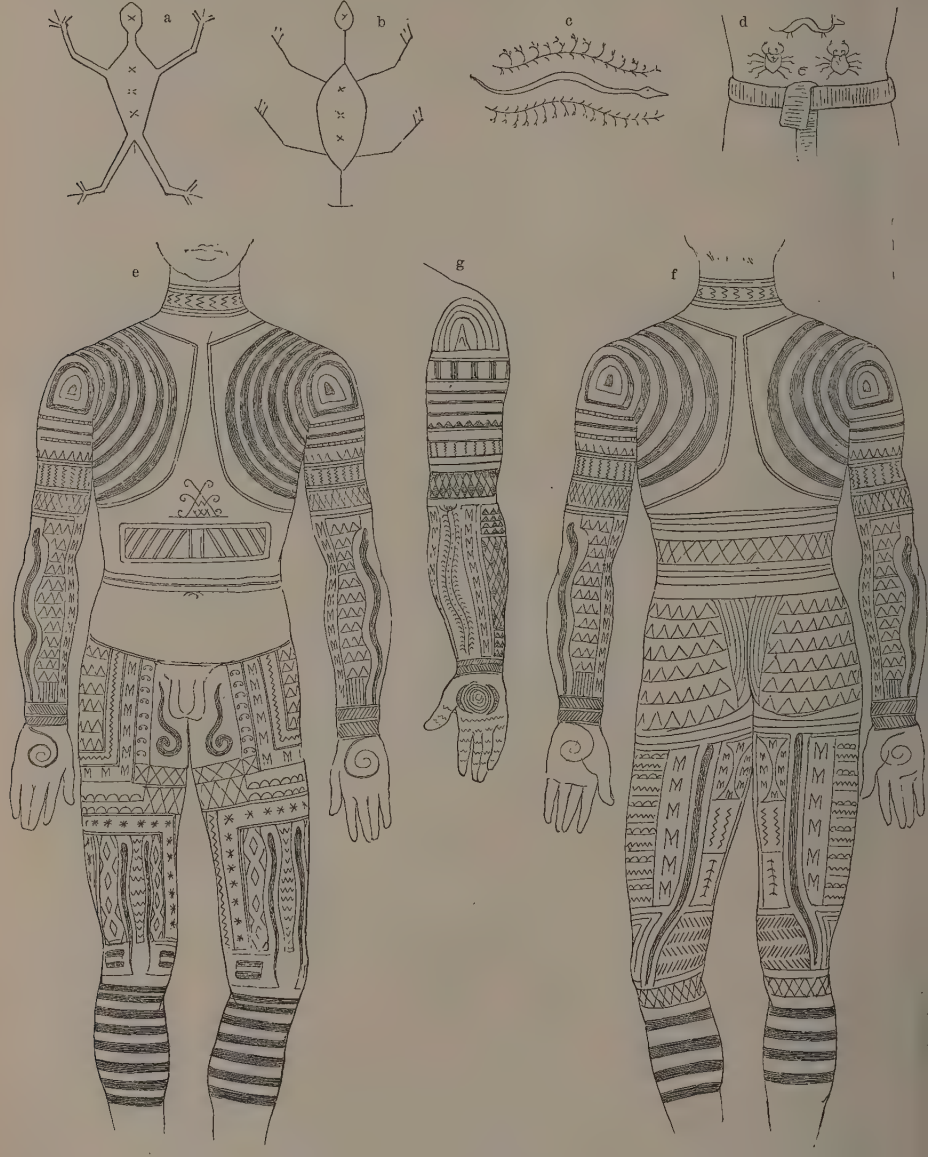


Hats worn by chiefs of Kutei tribes in Borneo. (Munich Museum.)

which the Dyaks on festivals and market days fasten silver rings. High combs of wood are worn in Ceram; of tortoise-shell in Sumatra; but the modes of dressing the hair for festivals in perfect helmets of many coloured feathers, flowers, and leaves, are picturesque beyond description. In pugilistic contests, the champion wears on his head a carved ring of wood, in which a bunch of feathers is stuck. In the Moluccas the skins of birds of Paradise adorn the hair of the girls, while false pig-tails for women are offered for sale in the Battak markets.

The distribution of tattooing is irregular. Among the Formosans, the men wear horizontal stripes across the whole forehead; the women from ear to ear, and perpendicular stripes as well. Tattooing of the hands is said to occur in the interior of Formosa. In Luzon, almost every Igorrote has a figure of the sun on the back of his hand. Punctured tattooing with Japanese or Chinese patterns is found among the Catalangans. Among the Negritos as well as among the Igorrotes, "scar-tattooing" occurs. The skin is raised in folds over the whole body,

and rectilineal designs worked with a pointed iron style, or a splinter of bamboo. In Ceram, tattooing is only found in the west, and almost exclusively in women,



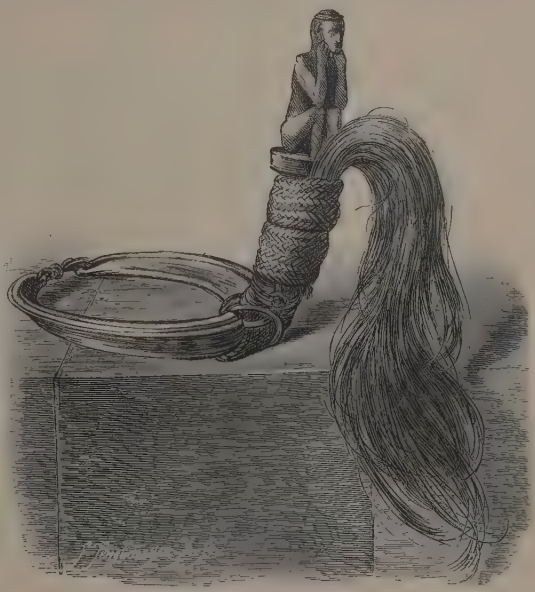
Igorrote tattooing: *a*, *b*, designs on the calves of the legs; *c*, *d*, on the stomach; *e* front view; *f*, back view of a *Burik*; *g*, a woman's arm. (From drawings by Dr. Hans Meyer.)

on the breast, upper arm, navel, and forehead; in Timorlaut it is universal. The tattooing of the Mentawei Islanders is executed in simple but elegant geometrical lines. In Borneo, again, extensive tattooing has been observed

most solely among women, on the hands, feet, and the upper part of the thigh. Men often have merely a mark which possibly has a religious or social significa-tion; on the forehead, one arm, or one leg. Thus all the Tanjan Dyaks are

Igorrote necklaces, with (*a*) tweezers for pulling out hair; (*b*) pendants of crocodile teeth-one-third real size. (From Dr. Meyer's collection.)

marked with ⌣⌣. Among some Bornean tribes extensive tattooing occurs, but only among valiant warriors or head-hunters. Those who have come in contact with civilization, like the Milanos, have given it up altogether. In Kutei the more difficult patterns are executed by pro-fessionals. The outline is first cut in wood, and then the design is transferred to the body with a sharpened piece of bamboo, or a needle dipped in a vege-table pigment. The operation is very painful and lasts a long time, but the marks are indelible. Tattooing takes place in the male sex, as a rule, at their entry upon manhood, among girls as soon as they are of an age to marry.



Ring worn by the Igorrotes on the upper arm when dancing — one-third real size. (From the same.)

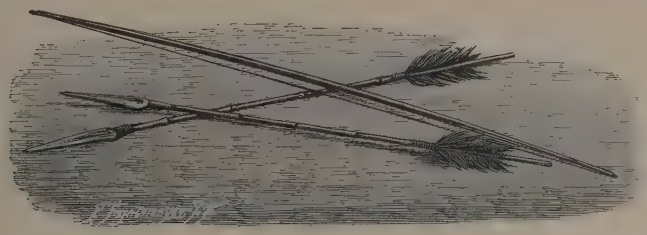
For dancing the face is painted; the thumb-nail of the left hand is, according to the custom in the east, allowed to grow an inch long, and the Bugis women even have a cover for it. Over the whole Malayan region special attention is paid to teeth mutilation, which often appears in connection with artificial colouring of the teeth. Most common of all is the filing of the upper incisors and canines so that they are made shorter but keep their shape. The same treatment is also applied to the corre-

sponding teeth of the lower jaw. Sometimes the teeth are filed to a point sometimes a transverse groove is cut, or a triangle is knocked out between the two front teeth. This is, as a rule, first done at the age of puberty

Malay weapons: (1, 2) Hat and shield from Mindanao, in the Philippines; (3) Quiver with poisoned arrows from Celebes; (4) a champion's shield from Solor; (5) Sword from Gorontalo in Celebes; (6) *Mandau* of the Kahayan River Dyaks; (7) Outfit from Ombai; (8) Spears from Java. (Dresden Collection.)

though we find grown men who have not yet undergone it. But in any case good manners seem to require that it should take place before marriage. Whatever may be the original idea of teeth filing, it is now done as a gratification of the sense of beauty. Long white teeth are dog's teeth. Further evidence of this is the custom, widespread in Borneo and Sumatra, of drawing gold wire through

he four incisor teeth of the upper jaw. Among the Tobah Battaks a man often arries all his property about in his head; in this case the teeth are always blackened, but, as a rule, they are also blackened after the first filing. This practice, which now is a mere matter of ornament, may have arisen from the wish o prevent the decay of the filed teeth, either by applying the gum of a kind of *halcas* or *artocarpus*, as in Borneo, or by staining with a ferruginous ink, as in ava; but, besides this, betel-chewing causes the teeth to have a dirty appearance. The tooth-filing is performed by experts; formerly a stone was used, now a chisel or file. Mussulmans have a legend to account for it, that Mohammed, on the occasion of his flight from the sheikh of Lakad had four of his upper teeth knocked out. On the other hand, the Formosans assert that it is done to make the breathing easier. In Sumatra, the files, after the operation, are stuck into the stem of a banana in order to preserve the patient from injurious consequences. Circumcision, sometimes in the form of slitting, was originally more widespread, but is now confined to the east, as Ceram and Flores, where it is celebrated with great



Bow and arrows of the Negritos in Luzon—one-twelfth real size. (Dr. Meyer's Collection.)

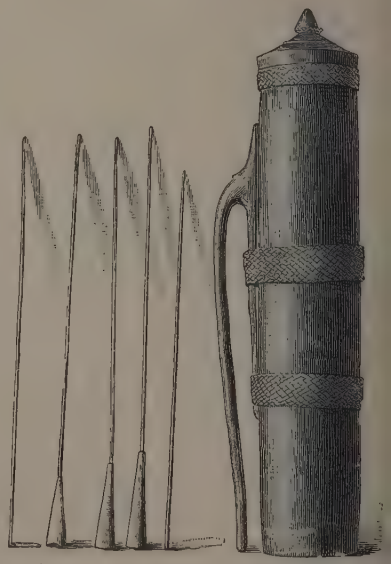
pomp as a village festivity. Deformation of the skull, usually by flattening the occiputs, more rarely by oblique pressure of the forehead, occurs in the most various Malay districts.

Apart from the ornament, which is an imitation of Indian and European fashions, the wearing of arm-rings in large numbers, or formed by spiral twists, reminds us of African customs. Among the simple Ilongotes men and women wear rings of bronze or brass wire round their necks and arms, and these they set with hard brightly-coloured seed, such as those of the *Abrus precatorius*. The wire sits close to the muscular part of the arm, and no doubt is intended more for increasing the muscular strength than for ornament. The ring worn by the Igorrotes on the upper arm curiously resembles that similarly worn by the Negroes. Tight-lacing of the body is found in Formosa, where you may see boys running about like wasps, while the bamboo or rattan belts of the Dyak women, worn one above another, remind us of the laced belts of South America. In caves on Luzon armrings of dugong vertebræ are found, just such as are prized by the Micronesians. In Central Sumatra, too, the ornament of betrothed girls consists, besides ear-rings, of narrow silver bangles worn on the wrist and fore-arm, often twenty and more in number, and reaching to the elbows. Unbetrothed girls may only wear them on one arm, married women not at all. The lads of Formosa are proud to wear arm-rings made from the pig-tails which once grew upon the captured heads of Chinese. The Dyaks regard it as the greatest adornment to have large holes in

their ears in which they wear wooden disks or heavy silver rings. So too the Battaks of Tobah and the Igorrotes of Luzon, who especially affect crocodile teeth. The upper part of the Dyak ear is gay with tassels of red cotton and the like, and as soon as a Dyak has become a distinguished head-hunter he is entitled to stick in a pair of leopard's fangs, while in Luzon the number of ear-plugs shows the number of decapitations performed by the wearer. When a Nias man has taken a head, he gets a wire neck-ring strung with many rings carved from the nut *Lodoicea sechellarum*. The Formosans, who have been touched by Chinese ways, make but a moderate use of armed ear-rings, or of glass beads, but the unsophisticated inhabitants wear heavy ear pendants of bamboo, stone, or metal, frontlets of shells, and thin copper arm-rings. The Ceramese are often distinguished by a superfluity of bead pendants, so that the impression of nudity entirely disappears, and the Tinguians of Luzon wear heavy masses of beads or stones of many colours which are brought from the Batanes Islands. Compared with these the necklaces usual in Flores, made from the bright violet flowers of *Calotropis gigantea*, produce a splendid effect. The ornaments of progenitors, as well as their weapons, hold a high rank as valuable and legendary family possessions of mystic importance, and become in process of time amulets.

Bow from Sulu of Asiatic origin, and Negrito harpoon—one-twelfth real size. (Dresden Collection.)

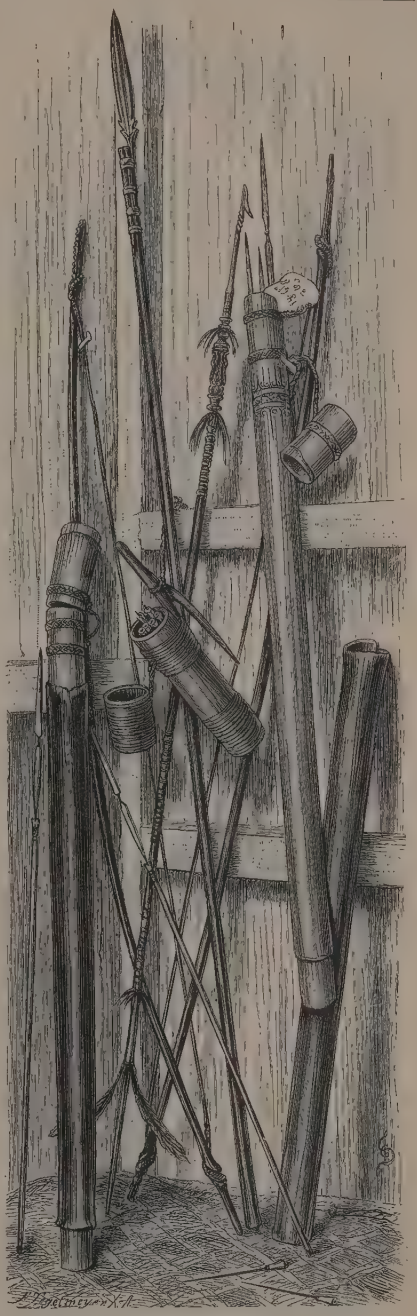
The Malay race delights in weapons and finery. Among the poorer tribes, who are predominantly nomad, the weapons are of a simpler kind and almost entirely missile in character—bow or blow-gun with arrows. Especially is this the case with the remote tribes in the interior of Borneo and Luzon, whom the practice of head-hunting keeps in a constant state of war. Dyaks, Utos, and Ilongotes never go unarmed, even for a few paces; they sleep with their weapons beside them. The Orang Punan of Borneo are seldom seen without a paddle in one hand and a blow-gun in the other; in a strong contrast to the peaceable effeminate Javanese, Macassarese, or Padang Sumatrans, with their delight in fanciful ornamental weapons, five-lobed daggers, three-pointed spears, and the like. In Celebes, ornamental shields are hung up in the house, and the inhabitant looks to them for protection. The Negritos of East Luzon have only bows and arrows. The Ibilaos are reputed excellent archers; but they shoot the wild pigs which they take in nets only at short ranges. The Igorrotes whom Hans Meyer saw were, as a rule, not acquainted with this



Blow-gun, arrows, and quiver, from Borneo—one-fourth real size. (Stockholm Museum.)

weapon, though the Guinanese have words for bow and arrow. A line drawn east of Sumbawa, Celebes, and the Philippines divides the region in which the bow is generally diffused from that in which the blow-gun predominates. The form of bow prevailing in the eastern archipelago is simple, and has affinity with one of the New Guinea forms. Where the bow is used by Bugises and others, it is in forms imported from Asia.

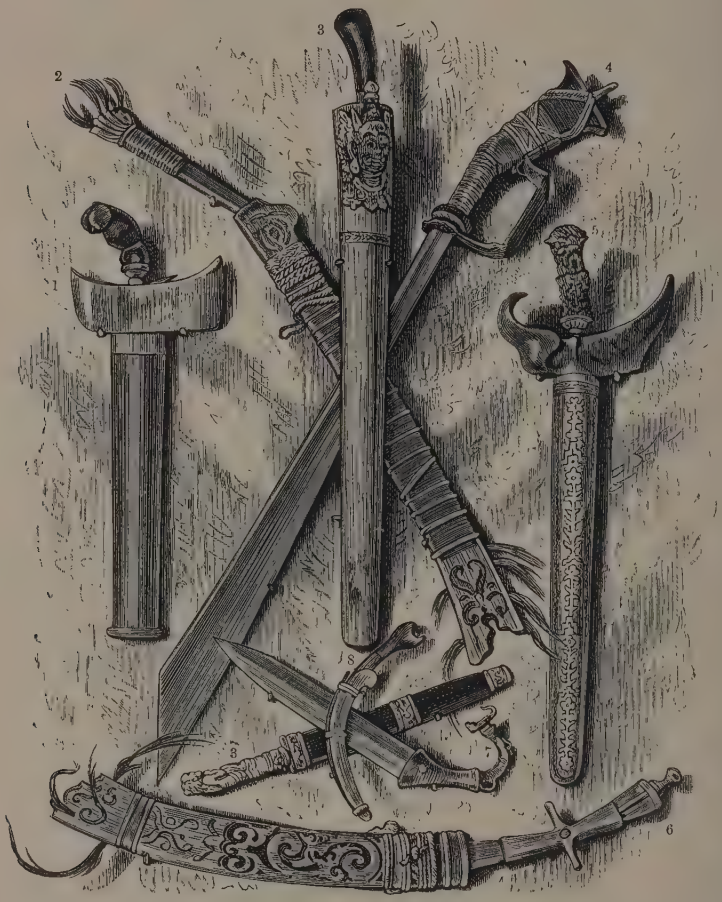
Among the Dyaks, Utos, and other Bornean tribes the blow-gun replaces the bow. This consists among the Lubus of one bamboo inserted in another, among the Dyaks of a tube of iron-wood, the length of a man, smoothed with rough leaves and furnished on its front edge with a lance-point fitting like a bayonet on to an iron hook, probably for sighting. Through this instrument, called *sumpit*, the Dyak blows his arrows. They are light and thin, 10 to 12 inches in length, and made of bamboo. The sharp point is poisoned, and for killing large animals the arrows are furnished with barbs. At the butt-end of the arrow is a piece of pith fitting the calibre of the tube, to serve at once as feather and "gas-check." With these missiles a Dyak can bring down the smallest bird with accuracy at fifty yards distance, so that the weapon is more effective than the weak, unevenly made bows used by the forest tribes of the Philippines with their clumsy arrows. The quiver, made of bamboo, is provided with hoops of plaited rattan and a bamboo cover. The top is often adorned with a snail-shell. The less civilized Formosans carry bow and arrows of genuine Malay shape, and so also the Alfurs of Ceram. Their bows are of iron-wood, the strings of rattan, the arrow-heads of iron or bamboo; quivers they have none. The Alfurs of Tarandu use both bow and blow-gun. A cross-bow of practical construction, not, like



Blow-gun, small quiver, and spears of the Kahayan Dyaks of South Borneo; bow, arrows, and quiver from Poggi. (Munich Museum.)

that of the Fans shown on p. 86, apparent only, is found among the Nicobarese, together with a very simple bow for shooting pigeons.

The poisoned arrows of Java and Borneo are among the most effective that are known. The poison used in Java, called *chettik*, comes from the *Strychnos tieuté*; another, *antias*, from *Antiaris toxicaria*, the "Upas." Both affect the heart.



Mandaus or swords, krisses, and knives: (1) from South Celebes; (2) from the Batang-lupar Dyaks; (3) from Java; (4) from Gilolo; (5) from Java; (6) from the Kahayan Dyaks; (7) from Mentawei; (8) from the Rejangs of Sumatra—one-sixth real size. (Munich Museum.)

The Dyak poison, *ipoh*, is also from an *Antiaris*. The arrow-poisons of the Philippine tribes lose their effect when not fresh. Here too the forest tribes are regarded as dangerous poison-brewers, and European travellers are often warned by friendly natives against accepting food from them.

Firearms have made considerable progress. In Formosa, bows and arrows have been almost driven out by Chinese matchlocks. The admirable armourers of Java, Sumatra, Bali, Celebes, and Borneo can also construct firearms. The

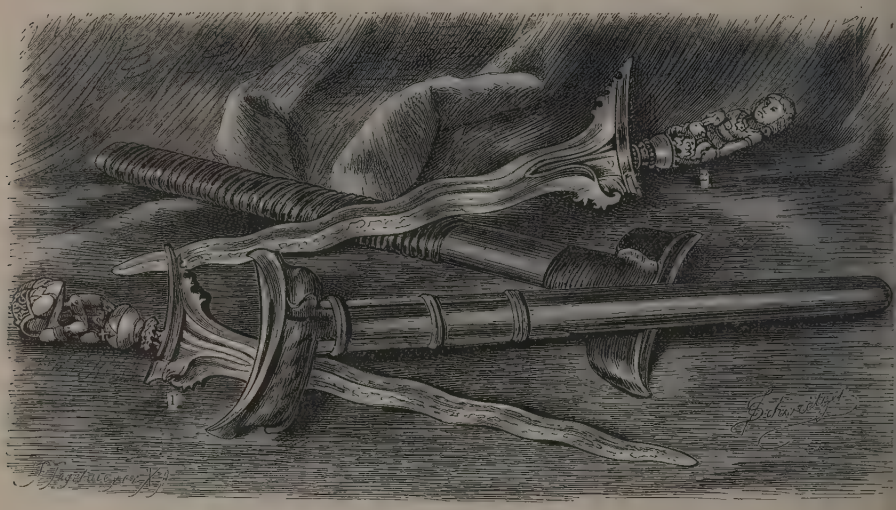
ssaks of Lombok even bore their own gun-barrels. A round bar of iron is ck perpendicularly in the ground, and a drill is inserted, attached to a bamboo h a cross-handle. In order to increase the pressure, a basket is woven round bamboo and filled with stones. The Battaks carve stocks in correct style and ow how to make powder. They find sulphur in their own volcanic country, d contrive to get saltpetre by washing the urine-soaked earth under the houses. ces of bamboo serve for cartridge-cases; and bits of coral are ground into lets. The fact that in 1570 Manilla possessed guns of native casting, and that Sultans of Sulu have for a long time disposed of a formidable artillery, has sed the question to be raised whether the Chinese had not introduced the art casting cannon before the arrival of Europeans. But it seems simpler to explain facts by the operations of Portuguese and Spanish renegades. In battle these es shoot away their powder quickly, so that the affair has, after all, to be decided spear and throwing-knife.

The spear holds an inferior place among Malay weapons. It is mainly an plement of hunting or an ornament, especially in Java, and only among tain races, as in Sulu, takes its place beside the *kampilan* and the *kriss*, among more serious equipment for war. But among the Igorrotes of Luzon it is chief weapon; there a distinction is made between javelins with bamboo heads d thrusting spears with arrow-shaped iron heads; the Alfurs of Ceram also l use a spear-head of bamboo. Among the Dyaks a long spear is used for ar-hunting; among the Maanjans of south-east Borneo hardly any man goes without spear and sword or hunting knife. It acquires, however, practical portance principally among the hunting tribes, the Lubus of Central Sumatra. e Ilongotes of Luzon do not pay so much attention to it as to the *kampilan*. making the head they do not confine themselves to any special shape, but suit o their piece of iron; the shaft is always formed from the "*palma brava*" (*Corypha nor*). The Formosan spear, three or four yards in length, has frequently a inese knife at its head; in Borneo it takes the form, as we have seen, of a yonet fastened on the blow-gun. In the northern Nicobar Islands, ornamental ears are found in the huts; these are highly esteemed as marks of opulence t are never used. These spears are manufactured only in Chowra.

Everywhere, away to Malacca, the national weapon is something between a nting knife and a sword, though more recent than the bow, blow-gun, and ow, for it is not found upon the sculptures of Parambanam, which reach down to thirteenth century; it has become closely interwoven with the life of these races. e meet with it, in a simple form, as the *kampilan* of the Ilongotes, who, though other respects poor, are clever workers in iron and understand how to temper They generally ornament with gold wire the lower part of the one-edged, rcely curved blades, while the end is fastened with wire to the brass-covered ndle. To give a better grip this is bound with threads dipped in resin, the ath is of wood, and consists of two pieces fastened together with broad bands rush. The *kampilan* is attached to a belt of fine webbing worn over the shoulder round the body. We notice an agreement in details which can have no doubt to the common origin of these weapons. Whether it be the *bolo* of the Igorrotes, the *mandan* of the Dyaks, everywhere we find a one-edged, slightly curved ade with a broad back, a wooden hilt bound with wire, a wooden sheath, a cord hang it by; pretty inlaid work of brass and perforated pattern at the back,

richly carved hilt, and ornamented sheath complete the description. Hilts se with human teeth occur among the head-hunters, and here we also find the weapo finished off by a small sheath of bark attached to the lower side of the scabbar containing a little knife with a long handle, with which the Dyak cuts off hi victims' heads and strips the flesh from them. This appears also independentl among the poorer inhabitants of the islands as a hunting and working knife, whil wealthy and zealous head-hunters have half-a-dozen hanging on their walls a ornament.

The principal weapon among the Mussulman Malays is the wavy *kriss*, th national arm among the Sassaks of Lombok. The head-hunters test the sharp



Krisses: (1) from Celebes; (2) said to be from Bali—one-fourth real size. (Munich Museum.)

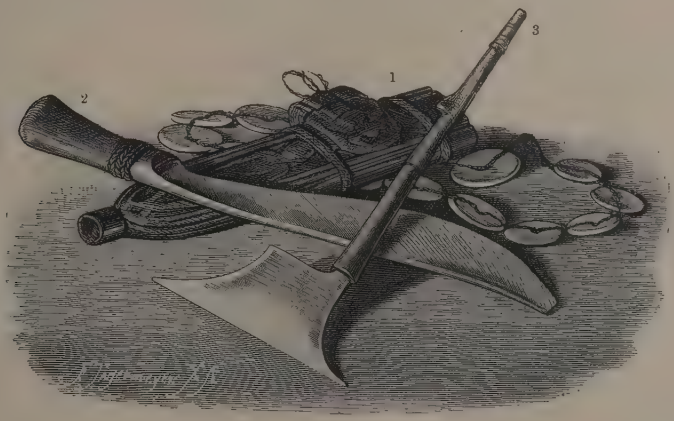
ness of the edge, by preference, on the hair of their skins. Carved hilts orna mented with gold and precious stones are among the most characteristic product of Malayan art industry, and one can trace upon them mythological theme gradually fading away into ornament. The flame-shaped damascened blade, th serpentine or dragon figures of the hilt, the decoration of the sheath, raise th *kriss* to the rank of a weapon closely allied with religious objects; salutary text are often engraved upon it; in Wetter, a talisman wrapped up in rags is conceale in the scabbard. The *lina*, weapon and tool among the mountain tribes of Luzon is a short, bluntly-triangular blade, broadest at the end, with the opposite edge convex and concave. In Java, crescent-shaped knives, with a handle fixed to th concave side, have been found in graves. Elsewhere, old knives have been foun of a peculiar shape, with appendages resembling throwing knives.

The Ifugaos of Luzon, who are equipped with spear, bow, and arrow, are said on their head-hunting expeditions, to make use of the lasso, commonly employe in hunting the stag.

Among the tribes that have received Indian influence, a great variety of pro tective weapons is found. Wooden or wicker-work shields are to be mentione

the first instance; the wooden shield is painted, covered with buffalo hide, or orned with inlaid shell-work, especially in the Eastern Archipelago, in the oluccas, and elsewhere. As we pass from group to oup special forms appear; thus, among the Ilongotes, e simple shield of light wood is deeply incurved above d below. It is dyed red with the juice of some plant, d adorned with carvings. Among the Dyak-like tribes some part of Celebes, and in the north of Nias, it is avy, of an elongated hexagonal shape, and almost as gh as a man. It has a raised rib running throughout length, and is painted on both sides with arabesques, ostly red. Occasionally, too, it is decorated with human ir. The inhabitants of the Talaut Islands have a rrow pattern of shield, prettily ornamented. Among e Alfurs of Ceram the shield is narrow in proportion its bearer's claim to valour, and for every head which cuts off he breaks a shell out of the shield, replacing by a tuft of human hair. In the greater part of Nias e shield is lighter and of elegant shape; this is chiefly ed in hand-to-hand fighting; another heavier kind, rried not with the fist but on the forearm, serves for vering. In Sulu also we find two shields, the smaller d most frequently carried, of circular or elliptic shape, vers only half the body, while the large shield forms a mplete covering; both are made of hard wood and often vered with buffalo-leather. Peculiar patterns are found in the Wetter shields ade of cow-hide cut out into the form of a cross, and in those of Nanusa or Talaut th the narrow end shaped like a crocodile's head.

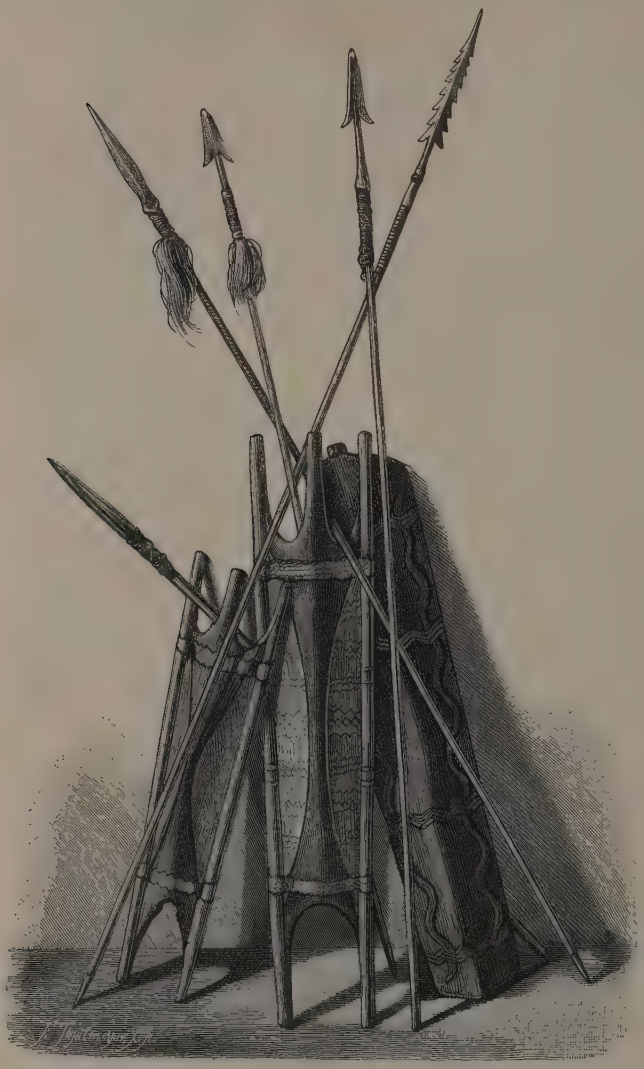
Dagger from Borneo—one-fifth real size. (Roy. Mus., Leyden.)



(1) Sling and sheath of (2) Igorrote chopping-knife; (3) Guinan hatchet, from Luzon—one-sixth real size. (From Dr. Hans Meyer's Collection.)

Armour of some sort, without being universal, occurs in all parts of the chipelago. In Sulu it is only the humblest class who are content with shields.

Many persons wrap their bodies in a thick roll of cotton wadding; others wear helmet and cuirass of buffalo-hide. Bastian mentions mail-coats of plaited string from Mandhar in the Moluccas, fastening at the back, and studded both before and behind with the broad ends of *Conus* and *Trombus* shells. In the Eastern Archipelago we find mail vests of strong cocoanut fibre closely woven; in Arru, upon hoops of rattan. Dyak head-hunters have them strengthened with iron rings as in woodcut on p. 423, and they also wear arrow-proof jackets wadded with cotton, cuirasses thickly plated with the scales of the armadillo, and gorgets of buffalo hide. The warrior's equipment is completed by a basket or pouch of plaited work, which is carried on the back or the arm, and serves to receive food, flint and steel, and decapitated heads.

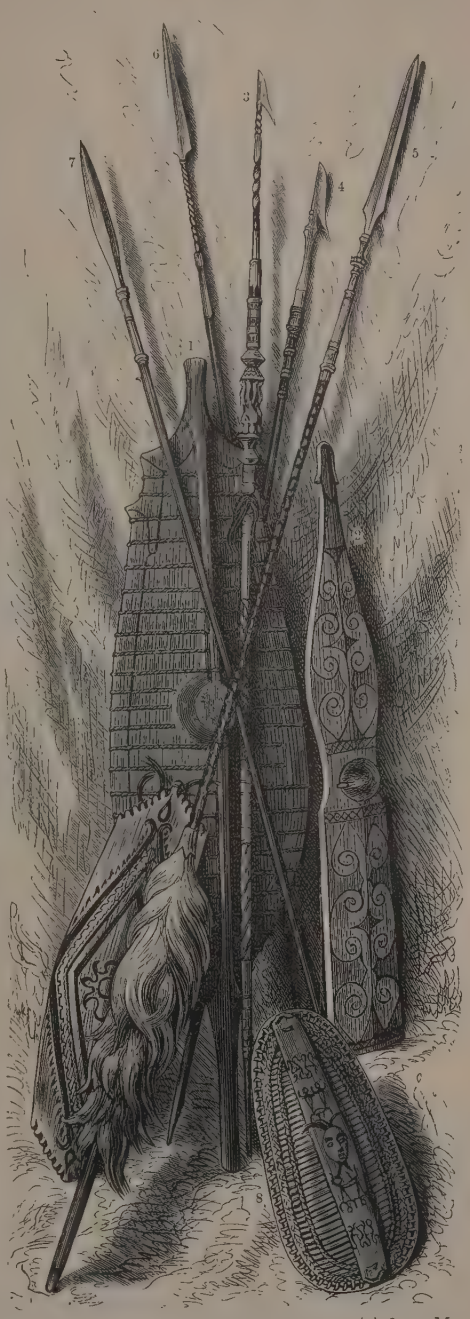


Igorrote and Guinan spears and shields—one-tenth real size. (From Dr. Hans Meyer's Collection.)

The most conspicuous peculiarity of the Malay house is that it is built on piles, as shown in our plate, "A Taga Village." This style persists even in the European settlements. At Padang, in Sumatra, the houses of European residents stand on piles a yard or two in height. On this account Banjermassing has been called the Venice of Borneo, as Palembang on the River Musi, that of Sumatra. The most curious instance of this arrangement is the pile-built town of Kiluaru, on a little sandbank in the high sea between Ceramlaut and Kiser, where is an emporium of the trade of the Moluccas and New Guinea.

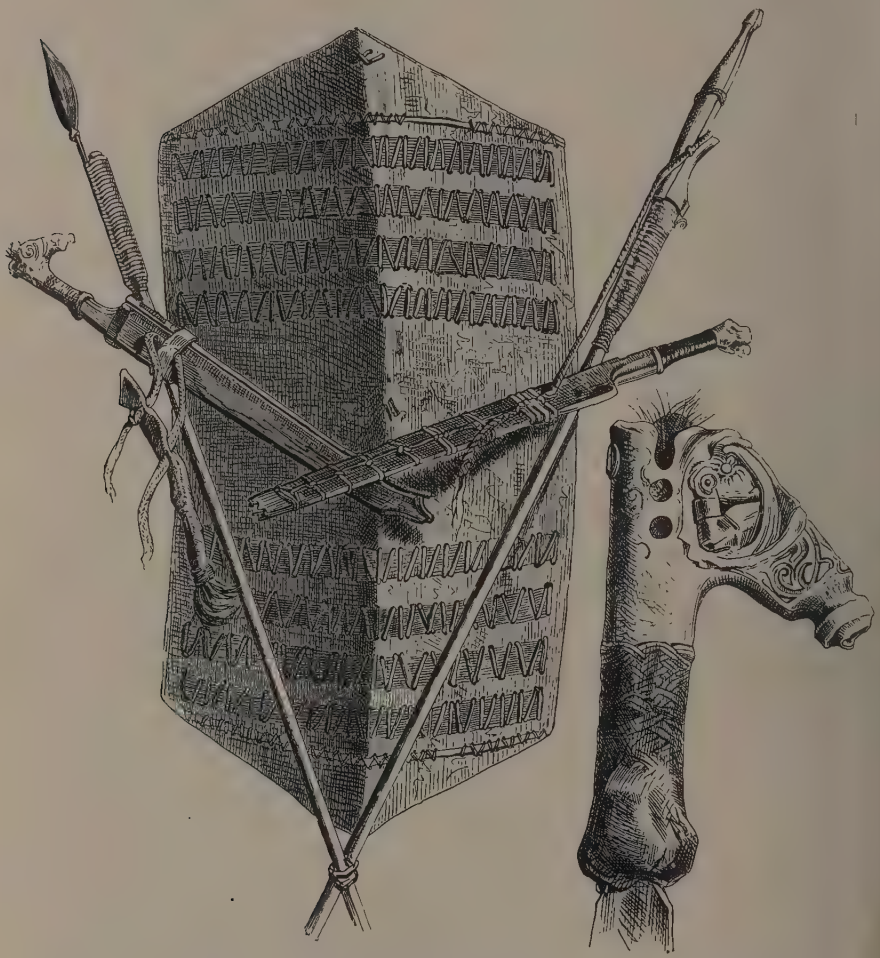
That the motive of this style of uilding was protection against man nd beast is shown by the decrease f pile-dwellings proportionately to ne growth of public security. Thus, mong the Milanos of Borneo, all ne houses stood formerly on piles of ard wood, 40 feet high. Nowadays nere is free intercourse among the wellers by all the rivers, from the Lejang to the Bintulu, and the houses ave come down to the earth, or at nost a small space is left between ne ground and the bamboo flooring. By the sea, however, and on the anks of the larger rivers, pile-dwellngs retain their reason for existence, oth as protection against floods and wamps, and as facilitating the task f getting food from the water. In ne Philippines there are houses of hich the bamboo poles and wicker-ork are but little above the flood-evel of the water. These houses re set close together, narrow passages lone running between the rows; nd the village straggles far along he shore. When we find Dyaks nd Battaks building in the same tyle on high ground, we may assume hat they formerly dwelt down by ne rivers, and thus merely retained heir accustomed fashion of building. But there is an even nearer reason n the security of the elevated posiion. When the tree-stem with the teps cut in it has been hauled up, he building is like a castle with he drawbridge raised; and this, in head-hunting country especially, nust add materially to the safety f the domestic hearth. For additional security the approaches consist nly of felled tree-stems. Among he objections to pile-building on ry land are want of cleanliness and efective stability.

Defensible positions are every-



Spears and shields: (1 and 7) from Nias; (2) from Mentawei; (3, 4, 6) from West Borneo; (5) from Gorontalo; (8) from Borneo. (Munich Museum.)

where selected with remarkable discrimination. Many of the *kampongs* or villages of the Sumatran Battaks, of the Ilongotes, and others, are placed upon almost inaccessible pinnacles. Favourite spots are the little plateaux formed by the broadening of a mountain ridge. But other defences are added. In the lower parts of the Battak country nearly all the *kampongs* were, in Junghuhn's time, surrounded with high palisades, behind which watch-towers rose



Shield, blow-gun, spear, and swords of the Torabjas in Central Celebes—one-sixth real size. (Frankfort City Museum.)

Now all this has naturally disappeared wherever the Dutch government has put an end to internal fighting. Among the Battaks safe dwelling-places are also found at the point where a tree-stem forks or throws off branches: the central shoot is lopped off, and the surrounding branches remain. The Ilongotes of Luzon erect at the tops of trees their forest-huts, made from the leaves of the *nipa*-palm and bamboo, and supported on tree-stems. Each of these

tle houses serves as a tranquil abode for a whole family. The Orang-Sakei and e Lubus of Sumatra also live to some extent in trees.

The Ilongotes place prickly bamboo stems round their huts for security, stick arp arrows in the ground, and make pit-falls, so that even a friend needs to nounce his arrival some way off. Night and day sentries are posted. When panish troops are looking for a fugitive criminal, their approach is known long fore, and if it is not desired to give the criminal up, nothing can be done; they de in the forest where bullets cannot reach them. The only thing is to burn eir huts; and these, says Schadenberg, are rebuilt in a day, as soon as the ldiers are gone.

A further characteristic of Malay architecture is the steep roof, often 50 feet

Mail-coats worn by the Dyaks of South-east Borneo.

gh, and coming far down. In the Alfur huts it comes down to the ground, and the back side at once includes and shuts off the fire-place. It is a gable roof ove a rectangular or square ground-plan. Round edifices are as scarce here as Africa they are common. In Timor we find them oval, with conical roof; in abelo there are octagonal huts; in the Nicobars, dome-shaped roofs with angular ubstructure of stakes. In rectangular buildings the walls usually have an outward ope. The thatch is of palm leaves. In more elaborate houses, such as the out-uildings of chiefs' dwellings, the walls are prettily wattled with palm fibres. The able end often bears buffalo-heads carved in wood, and other emblems, or inscribed blets of the nature of amulets. In windy uplands the roofs are protected by oles from being blown off.

The interior arrangements vary with the degree of civilization, and depend rther upon the character of the dwelling—whether occupied jointly or severally,

whether the families occupy separate apartments or one in common. The Dyaks affect the long or village house, 80 or 90 yards in length, in which thirty or forty families live together, but in separate rooms; while among the Battaks four to six families at most occupy one house, but they all live together in one room. The separation of the women's apartments is a peculiarity of the Dyaks, but unknown among the Battaks. The simple houses of the Mussulman Achcenese form an oblong square, containing only the most indispensable necessaries—one or two pots and pans, a few mats, and a sleeping-place shut off by a curtain, which in the better families is regarded as the owner's apartment. There are

Malay utensils: (1) Comb from Timor; (2) Knife from the Philippines; (3) Sickle from Java; (4) Cow-bells from Sumatra; (5) Brasier and rice-pot from Java; (6) Basket from Celebes; (7) Rice basket from Java, for cooling steamed rice in the cover; (8) Brass pipe of the Battaks. (Dresden Ethnographical Museum.)

differences also in the fashion of building. The Battaks of Tobah build far more solidly than the Dyaks, with strong beams and mighty planks, putting much art and industry into the carving and painting of the woodwork. An outbuilding serves in its upper part to store rice, in the lower story as a place of sojourn during the day for certain people, also as a sleeping-place, and as a council-house. They even have verandahs on the narrow sides of their lofty houses. A house has to last until the children are grown up. Dyak house-building is rendered too easy by the gigantic development of the bamboo in their country. Throughout the archipelago plank houses are considered better than bamboo houses. In the huts baskets hang from the roof, and in the eastern islands the jaws of pigs and deer as ornament. Against the wall stands a great earthenware vessel, or a large

amboo with the partitions of all knots except the last knocked out. Among ne Battaks the strength of girls is measured by the number of such vessels they an bring from the spring to the house. The dwellings of people of importance re distinguished externally only by their circuit and height. The interior of the

A house in Sumatra. (From a model in the Dresden Museum.)

alace of a Moro chief in Mindanao is not divided by partitions ; mats and cushions ie in one corner, in another women and girls are occupied in peeling fruit, in nother nets, hooks, and fishing-tackle are piled up, spears and krisses hang on he walls, and the middle space is the reception-room. Civilization is shown in

Plough used by the Triamans of Bencoolen. (Dresden Museum.)

few stools, without backs, of bamboo wicker-work, for guests ; the Moros sit ross-legged upon the floor of bamboo poles. The furniture of a Dyak house, gain, a mat or two, cooking pots and utensils round the hearth, which is placed t the entrance, would seem poor without the warlike finery of *mandaus*, spears, low-guns, shields, and paddles, on the walls. A longitudinal partition of bamboo ivides off the common living-room, which is also the sleeping-room of the youths

and unmarried men, the remainder is subdivided into smaller rooms according to the number of the married members of the family and the girls. In front of the door of the dwelling room is a platform. Light enters only through gaps in the bamboo wall. As a rule, no light burns at night for fear of attracting ghosts, but in emergencies candles of resin are lighted. Among the Vicols large shells with rush wicks serve as primitive lamps. Hagen says that among the Tobah Battaks he never saw any light save that of the hearth and the opium lamp. Among the shepherds of Java the practice of kindling fire by rubbing sticks is still found, but elsewhere it has among the civilized tribes been replaced by flint and touchwood. In Ternate they strike sparks upon tinder with a sherd of porcelain and a splinter of bamboo.

Agricultural implements used by the Igorrotes: (1) Rice-knife; (2) Digging-stick—(1) one-half; (2) one-tenth real size. (From Dr. Meyer's Collection.)

Not only do the aquatic Malays pass the greatest part of their life on the uncertain element, but in the more thickly-peopled parts of the archipelago permanently-inhabited rafts lie at anchor beside the pile dwellings. Whether the custom be originally Chinese or not, it has quickly taken root among the Malays, who for months together carry rice, sago, and rattan down their sluggish rivers on rafts to market. Palembang has a whole suburb of this kind.

Common houses called *balei* or *baileo* serve in many places as sleeping-places for unmarried men, sometimes as many as a hundred. Herein also are hung up the heads of slain persons and other trophies, while among the less savage Christians corn-cobs, bulls' heads, and the like, take their place, and festivals are celebrated. As a rule, they have either no walls at all, or discontinuous walls. In Sumatra there is a similar kind of common house where the head-men meet for consultation, and travellers can pass the night; many of them are richly adorned with carved work. In front of the houses of the most respected inhabitants there hangs, under the roof of the *tabu*-shed, a tom-tom known as *tabu*, which is beaten on the occasion of festivals, accidents, and so on. In West Borneo this assembly house, where the young men sleep, takes the form which elsewhere is unfamiliar to the Malay style of a circle with a central hearth.

The arrangement of the villages differs according to the civilization. Forest nomads and Tagals have a tendency to isolated habitation, and accordingly in the Philippines the single homestead or *bario* is distinguished from the village or *rancheria*. We find the forest nomads' dislike of the plains no less among the Negritos and Ilongotes of Luzon than among the Lubus of Sumatra. The Battaks, with their highly developed terrace cultivation, can more easily remain in the

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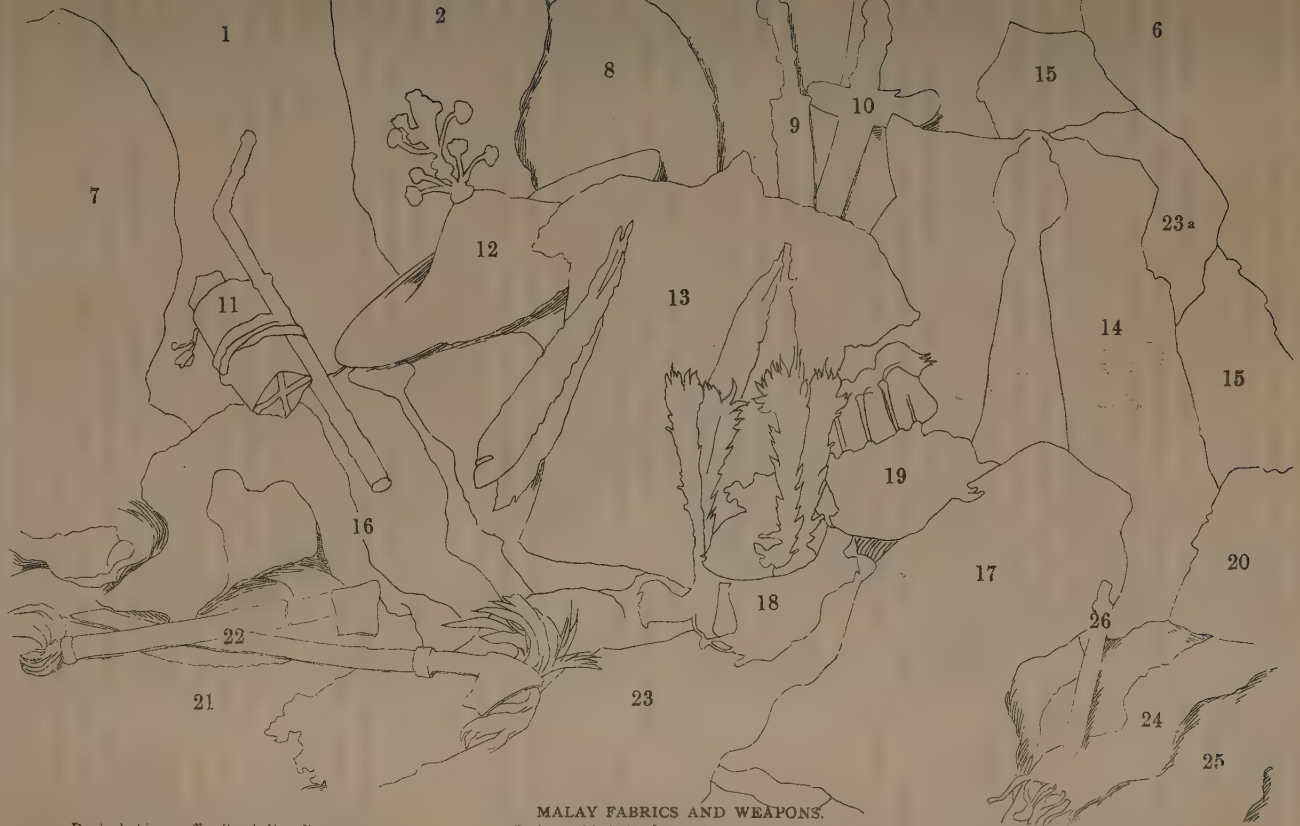


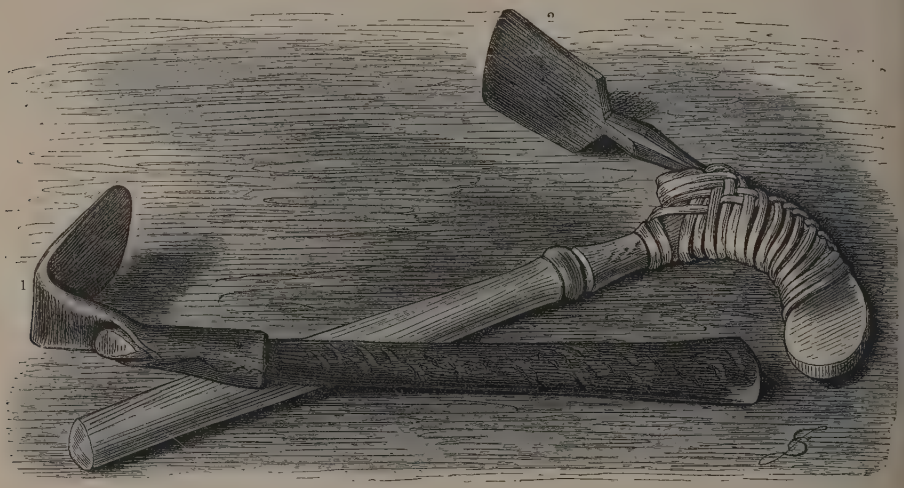
MALAY FABRICS AND WEAPONS.

1, 2. Dyak clothing-stuffs: South East Borneo.
3. Cotton *sarong* worn by Malay women: Singapore.
4, 5. Cotton *battik* (pattern drawn) worn by Malay women: Singapore.
6. Cloth *tringano* worn by Malay women: Singapore.
7. Dyak woman's *sarong*: Borneo.
8. Platted hat: Ternate.
9, 10. Krises with Hindu figures: Bali.
11. Basket, with knife for cutting tobacco or betel: West Borneo.
12. Hat with metal ornament: West Borneo.
13. Cotton fighting-dress of a Dyak chief: Borneo.
14. Jacket of bark: Nias.
15. Shield, with goat's hair woven in: South Celebes.
16, 17. Front and back of a Dyak warrior's dress: Borneo.
18. Head ornament of a chief: Batang-Lupar, Borneo.
19. Head ornament of a warrior: Solor?
20. Dyak hat.
21. Plaited hat: Borneo.
22. Sword: Timor?
23, 23*a*. Cotton belt as worn by Dyaks of Batang-Lupar.
24. Dyak woman's belt trimmed with beads.
25. Dyak woman's cotton *sarong*.
26. Tobacco-box: West Borneo.

ountains than the Dyaks, with their passion for clearing a new rice-field every ear or two. Yet even within narrow limits the position of the villages varies. n the Sindang and Rocpit districts of Central Sumatra, the inhabited districts lie ose to the mountains or actually among them. On the upper Ravas and its ributaries the mountain country is quite uninhabited; the Tagals build almost olely by the water, the neighbouring tribes only in the mountains. The maritime Ialays and Bugises have notably furnished the coast tracts and lowlands with a ense population of colonists. Since European dominion has spread over almost very district of the archipelago, the population has increased very much both in umber and distribution. The extent of the villages holds no proportion to the umber of the people, agriculture does not permit of the growth of large settle- ients. In general a good deal of land belongs to a house; thus in Padang you ust travel $2\frac{1}{2}$ to 3 miles from the landing-place before reaching the last houses. 'he Igorrote rancheries of Luzon, in a mountain country with very extensive elds, seldom contain, according to Dr. Hans Meyer, more than 250 inhabitants. n the cities where Europeans have not represented the interests of sanitation, the hinese and Further Indian system of packing together has prevailed.

Agriculture among all the Malay tribes is primarily concerned with rice; aize came later into association with it in some districts—the Philippines, for stance—as the crop second in importance. The very breeding of cattle is onnected with rice-farming, since the buffaloes work in the marshy fields. Even here cultivation is scanty, one always finds paddy-fields in the swampy bottoms. Elsewhere mountain-rice is grown on dry ground; besides this crop the Ilongotes f Luzon live only on maize and edible roots. The nomad Lubus of Sumatra, oo, grow rice and maize. In the eastern parts of the archipelago, onward from orneo, sago is held in increasing esteem, until we find it the chief crop in the Ioluccas and New Guinea. Beside this, tobacco is met with in the heart of orneo, as well as among the mountain tribes of northern Luzon. Widely spread, lso, are the sugar-palm (*arenga*), the sugar-cane, plantains, caladium, sweet potato, nd tapioca. As a food-stuff the sweet potato stands close after rice. Palms, apaws, durians, and other fruit trees, make the villages in the cultivated parts of ormosa, Java, Sumatra, and Celebes, into verdant orchard-landscapes. Apart rom European influence, the Battaks stand highest as agriculturists. The agnificent terrace-farming of the natives of Java, Bali, and Lombok, though in reat measure of Indian origin, has only its present high development under Dutch rule. The Battaks in the highlands of Sumatra even use a plough, the hare of which, a straight, rather narrow, iron blade, is set in a wooden handle. here is a simple pole with a wooden yoke for one or two buffaloes. The Tobah attaks claim to have invented this plough; at any rate, they had all the ssentials for it. A similar plough in South Celebes, where Wallace saw also a ude wooden barrow in operation, has the share of hard palm-wood. For breaking he clods the Battaks use a wooden club. In former times the Battaks devoted hemselves to agriculture on a more extended scale; wide tracts of cleared forest- nd indicate their places of abode in Sumatra. Now, however, they are in fact ore stationary than the Dyaks, although they carry on cattle-breeding as well. n some districts they also manure the fields, carrying dung to them in baskets, r leading the drainage from the cow-houses over the land. In the eastern rchipelago there is no such practice.

Quite apart from the plantation of coffee, tea, sugar-cane, and spices,—which the Dutch have made compulsory upon the Javanese, and the people of Padang and the fruitful Minahassa country, as the Spaniards have done in the Philippines in regard to tobacco, Manilla hemp, and cacao,—we find that the indigenous agriculture, and above all that of rice, shows marked gradations. It had obviously, even before the European time, perhaps even before the Indian time, been greatly advanced by reason of a higher civilization in the Western Archipelago. Java, Sumatra, and the Philippines, in which sixty different species of rice are known, stand higher in this respect than the rest of the islands. Battaks and Dyaks live mainly by agriculture; but among the Battaks the rice is grown in fields laid out artificially in terraces, and irrigated by means of long water-leats; while the Dyaks, owing to deficient irrigation, have to lay out new fields every two years



Hoes from (1) Singapore; (2) Sumatra—one-fourth real size. (Munich Museum.)

in grubbed-up forest-land. And yet the Battaks do not represent the highest point attained; this is found in the remote little-visited Nias Archipelago, off the coast of Sumatra, which was probably colonised by the Battaks. Among the Tinguians and Igorrotes of Luzon, rice farming stands at a high level, with its arrangement for flooding the ground, and dams against inundations. It is most meagre in the east, where it comes into contact, as in Timorlaut, with the more popular sago gathering. Hard labour does not end with the harvest. The daily task of the women begins with the pounding of the rice, which is kept in the husk. Even before sunrise it can be heard far and wide, like thrashing with us; and as with us the village pump is the centre of gossip and jokes, so here is the rice-pounding. The mortars are pieces of tree-stem placed upright; the pestles, heavy spars of wood, perhaps 10 feet in length; but occasionally rice is pounded in holes made in the rock. Afterwards the rice is cleansed by winnowing in four-cornered troughs of wood. The man does not, as a rule, begin his day's work till after his first meal, which takes place at 7 or 8 o'clock; but on an emergency, he may have already done a couple of hours' work in the paddy field. In the Dyak villages of South-east Borneo, the scene becomes lively every morning

bout 7 o'clock, where men, women, and half-grown boys go out fully armed to ork. Here, besides rice, maize, sugar-cane, and plantains are grown in gardens ear the houses. At sunset they return, the men bearing firewood, the women ne produce of the fields; and the latter have then to set to work at pounding rice nd filling the bamboo water-vessels. Only old persons, and those who are ccupied in house or boat-building, remain at home. Rice-growing demands nuch toil. The sowing is done pon rafts covered with earth, vhich keep the germs constantly noist; then the young plants re transferred to the fields, the oeing of which forms an im- ortant branch of the woman's abour. A more difficult task s the protection of the fields gainst the depredation of wild wine and rats.

Battak hoes from Sumatra—one-seventh real size. (Leipzig Museum of Ethnology.)

Beside the *mandau*, with vhich brushwood is cleared and traw cut, a great instrument f agriculture is the hoe. The ron blade is fastened by sinews r bark thongs wrapped cross- vise into a stock of hard wood, vhich often forms its means of ttachment to the long curved andle, frequently ornamented. The women work with a small nife, and the Igorrotes reap heir rice stalk by stalk with little sickle-shaped knife. Resin s collected for stopping chinks n wooden boxes, and for the preparation of torches; gutta- percha, and wax from wild bees' nests; in some districts also dible birds' nests. Rattan is lso cut, an indispensable material n hut and boat-building, and in the manufacture of many articles of furniture; o much coveted too, as an article of trade, that the chiefs of Borneo had a nonopoly of it.

What rice is to the Western Malays, sago is to the Eastern. Even in North Borneo it is the chief produce of the Milanos. The palm forests are communal property, and felling the sago palm may only be performed in pursuance of a communal resolution. The stem is split with a sword, the pith cut out with a hoe, and broken small with a stone club. Leaves stitched together form the bucket; cylindrical leaf-stalks, placed one below another, make a system of washing taps; and a sieve is made of bast. In Ceram, one man can in this way prepare in a

month so much sago that the half of it will keep him for a year, and with the rest he can buy knives and finery. The surplus of East Ceram provides for a whole number of neighbouring islands. Wallace calculates the cost of a man's victuals in this land of sago at twelve shillings a year.

Harvest festivals hold a prominent position—among many tribes the most prominent. The Maanjans of Borneo offer sacrifices so soon as the first rice is ripe. Some of it is sent into the village; a fowl is killed; the whetstone and

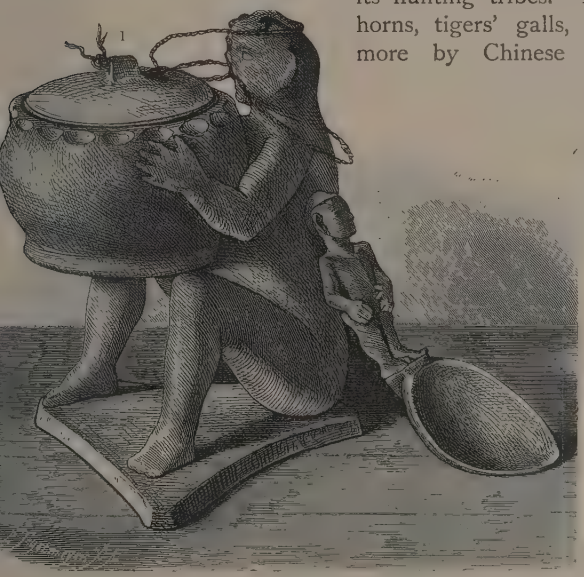
Javanese buffalo-cart. (From a photograph.)

other implements of field-work are symbolically fed, and a small carouse is held. In every house a fowl or a pig is sacrificed, when, at the November planting-season, a little bird called *sinrik* (probably a kind of wagtail), which goes north in April, first reappears; it is regarded as the messenger of the good spirits.

To cattle-breeding, nature has drawn narrow limits; nor are the Malays (to whom we can safely attribute, as their original domestic animals, only pigs, fowls, and dogs, with the subsequent though early addition of buffaloes), save with few exceptions, a cattle-breeding race. Even those who have cattle and horses in plenty, as in Tobah, plough only with buffaloes. It may be said that only the Battaks devote much industry to their herds of cows, buffaloes, and pigs; though even they do not in most places milk either cows or buffaloes. In recent times, however, the breeding of oxen has increased in Bali; while the ponies and cavalry horses of Tobah have for some time formed an article of export from Sumatra

nd Sumba. Buffaloes are kept for the sake of the rice farms, even where there re no oxen. In addition to pigs, fowls, and dogs, with an occasional stumpy-iled cat, which form the main stock of domestic animals, goats are found the highlands. Some Dyak and Philippine tribes breed dogs for food, and the gorrotes are said to do the same by horses. With the Tagals, the Balinese, and ne Sassaks, duck-rearing is an important business; but there must be some mis-nderstanding about the tale told of the Malays of Malacca, that their women uckle monkeys, fatten them, and eat them. Besides, the inhabitants of the nimal-frequented forest regions are very fond of domesticable animals.

A result of this abundance of animals is that every large island possesses its hunting tribes. Bezoary stones, rhinoceros horns, tigers' galls, are by Malay, and still more by Chinese superstition stamped as



(1) Wooden tureen and spoon from Luzon—one-third real size. (From Dr. Meyer's Collection); (2) Sumatran saddle. (Dresden Museum.)

aluable elements in magic apparatus. For the larger hunting parties, several amilies combine. The great nets of *abaca* (Manilla hemp), ten yards long y one and a half wide, are stretched between the trees, so that the game hen driven may take one direction, where the hunters are ambushed with avelins, arrows, and dogs. They have no lack of pluck; Beccari knew a ger-hunter who had by himself brought down fourteen head. But in the ultivated regions of Java and Luzon there are agricultural tribes who know lmost nothing of the chase. The Malays are masters in the art of setting raps. Six several kinds of Dyak traps have been described by Skertchly as ridges or platforms, arches, gangways. Many traps have two falls, which drop multaneously, so that the tiger can neither get out nor reach the bait. Others re of the nature of walled pits, widening to the bottom. For the capture of the avage Carabao buffalo, the Ilongotes bend a stout branch, and by means of attan twigs form it into a lasso trap. Even the poor Negritos of East Luzon wn sporting dogs. Birds are caught with nets and limed twigs; and among the

Maanjans of Borneo, during the rainy season, almost the whole time of a man is taken up in catching a small but savoury parrot, *Palæornis longicauda*, in arranging the decoy bird, weaving cages, and preparing the bird-lime. The Bugises pursue the stag on horseback in thoroughly sportsmanlike style.

Fishing is carried on with hooks, creels, spears, nets—though these are avoided in the neighbourhood of coral reefs—and also with stupefying drugs. Dried, smoked or salted fish, form a great article of trade, especially in the Philippines; and fishing-grounds are often let by the chiefs at a high rent. Deep-sea fishing is carried on by the Malays of the coast; who also devote themselves to turtle-catching and the gathering of edible birds' nests and trepang. On the Andamans, where only *Cyrena* is now eaten, the shell-heaps or "kitchen-middens" contain *Arca* and oyster-shells.

Dish-cover of armadillo scales from Sumatra—one-tenth real size. (Stockholm Museum.)

Vegetable food preponderates—rice in the west, sago elsewhere. Fish comes next; meat is by many persons eaten only on festive occasions. Owing to their preference of a shore life, sea products, even down to star-fish, are a favourite food. Beside the Mussulman laws as to feeding, there are ancient indigenous rules, not accurately known, which probably, as among Australians and Polynesians, are connected with tribal organisation. Thus the Mandangos of Borneo will not eat game. The Tagals are said to have learnt from the Chinese to eat eggs that have been sat upon, with the chick in them, as tit-bits.

Dish-cover from South-east Borneo (Stockholm Museum.)

Betel chewing is found all over this region. In well-to-do houses it is reckoned as a courtesy to set before the visitor the elegant *lane-jang* or case for the implements required for this purpose. It may be unknown in some out-of-the-way parts, but it is far more general than tobacco smoking, which is forbidden to the Bajus, and is not practised in the island of Ceram. The Tagals, however, and nearly all Mussulman Malays, are passionately fond of tobacco. "Hubble-bubbles" are made in Borneo with a small piece of hard ironwood, the water to cool the smoke being placed in a bamboo. In Luzon, the tobacco-pipes are made after the

hinese pattern, to hold a plug of tobacco not larger than a bean. In the interior Borneo, of the outer Moluccas, and of Timor, the tobacco plant is cultivated ithout European intervention such as has made Luzon, Java, and Sumatra into eadquarters of tobacco growing; and everywhere tobacco is a coveted article of ommerce. The Dyaks fill great cornets of green plantain-leaf with fine-cut bacco; and it is, as a rule, the business of the women to smoke these cigars. Vhen the laborious task is accomplished, the remainder is moistened with saliva nd made into balls of the size of a pigeon's egg. Opium smoking has been so idely disseminated by the Chinese, that in 1893 the Dutch colonial government

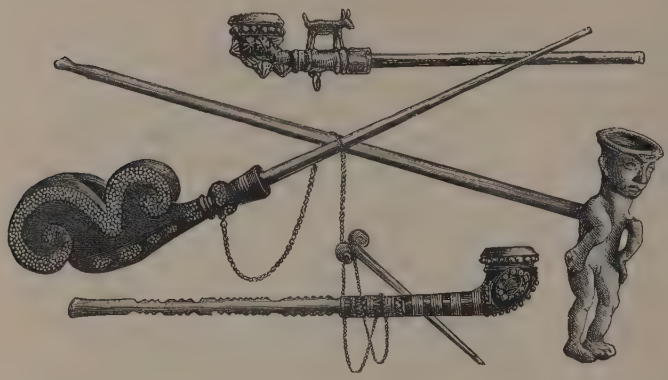
(1) Bamboo betel and tobacco boxes from West Sumatra—one-third real size. (Munich Museum.)
(2) Igorrote spindle—one-third real size. (From Dr. Meyer's Collection.)

ew 18,500,000 guilders for the sale and farming of the drug, more than 90 per nt of which came from Java and Madura. Even among the Battaks, opium noking is beginning to produce an enervating effect. On the other, betel chewing on the increase among the Chinese.

Spirituous drinks existed originally only in limited measure. Palm wine was deed largely in use, and slightly alcoholic drinks from rice or sugar-cane; but er large districts, as in Borneo or Sumatra, one seldom sees the natives drink ything but coco-nut milk or water. These races do not make much use of ffee, but prefer an infusion of coffee leaves. The Chinwans of Formosa brew a rmented drink from rice or millet; the yeast being replaced by rice meal which s been chewed by an old woman.

The Malay races are acquainted with the use and preparation of iron, though

at the present day much foreign iron is worked in their countries, and the iron spear, as among the exile tribes of Luzon, is a weapon of luxury. In the Dyak country, famous for its weapons, Bock could nowhere see a mine or a smelting furnace,[1] nor could he suggest whence the raw material for the weapons was actually brought. In Sumatra deserted ironworks are known, though to-day the Battaks work none but foreign iron. In Menangkabau, on the other hand, iron is smelted in furnaces two yards high and three wide; there gun-barrels are welded and cannon cast. Iron and copper ores are worked by the application of fire. In Banjermassing and Palembang, there is a large and flourishing manufacture of arms, the iron for which is fetched by preference from Celebes and Timor. This rivals in its damascened blades the most renowned workshops of the East. For damascening, a special quality of iron is imported into Borneo, for example, from Celebes, and the processes of welding it with common iron and of etching are executed with the greatest care. The Malays of Sarawak, in Borneo, also are clever workers in iron, and no less those of the south-east coast, where Nagara is the seat of great arsenals. In Brunei and Sarawak, brass and gold are likewise wrought. The Battaks are cleverer at copper than at iron work, in which even the savage Dyaks surpass them. The Igorrotes formerly carried on copper mining actively, the mining claims being strictly delimited. The inhabitants of Banca do not understand how to prepare



Tobacco pipes used by the Igorrotes and Guinans of Luzon—two-thirds real size. (Dr. Meyer's Collection.)

Carved wooden *sirih* box from Deli, East Sumatra—one-fourth real size. (From a drawing.)

[1] [Schwaan, however, appears to have seen the process.]

on, while their next neighbours are familiar with the process. The manipu-tion of the bellows, made of bamboo tubes on the system of the double ump, is the same as in India and Africa; but, besides this, Dr. Hans Meyer aw in an Igorrote smithy a bellows consisting of two hollowed tree-stems, ith pipes opening on the ground. For instruments Martens found in a Ialay smithy in Borneo, hammer, chisel, gouge, and axe, but not pincers. or hammers and axes the iron is fixed in the wooden handle with nothing but plit rattan; and for the handle a branching piece is selected, the iron being fixed the main branch cut off short, while the some-hat weaker side-bough serves as handle. Gold as obtained plentifully in the archipelago in pre-

(1) Malay loom (from a photograph); (2) Sack carried by the Igorrotes of Luzon—one-eighth real size. (Dr. Meyer's Collection.)

uropean times. The Malays of the western islands like to use gold in the most rious ornaments; even among the Battaks clever gold and silver smiths make igree. Beside damascening they practise the overlaying of the steel, when hot, th gold, which is then impressed. In Amboyna and Buru, the words for gold nd silver are Javanese; so that these metals would appear to have been brought ther in later times from the west.

Spinning and weaving are very common. Distaff and spindle resemble their uropean kindred. Even the Dyaks make excellent cloth from cotton on the mple upright loom, which, put together from a few sticks, leans at an angle gainst the wall of the house. The Battaks even know how to weave in gold reads. But the work demands much time. Wallace estimates the progress ade in weaving a narrow *sarong* by a countrywoman in South Celebes at one ch per diem. In Surabaya and Macassar there is a great textile industry which connected with artistic dyeing. The patterns are left colourless and drawn upon th liquid wax (*batik* industry); or the cloths have pieces of banana-leaf sewn on them, and are artfully folded, the whole being dipped in various dyes; so

that astonishing designs result. Java furnishes the black *sarongs* which the genuine Malay loves; Macassar, coloured cloth; Padang, the *slendjangs* or shawls with their charming patterns, often stitched with gold and silver threads, which the women use as head-coverings. Plaited baskets, pouches, and hats from the fibre of pandanus or certain palms reach even the markets of Europe. The "manilla-hemp" or *abaca* (*Musa textilis*), was cultivated in Luzon before Europeans came. Bark stuffs, the use of which has much decreased in the last century, are prepared especially by tribes in Sumatra and Borneo; while the stuffs of Celebes attain the perfection of the Polynesian *tapa*, as thin as paper. The Malayan *tapa* is thick, more like leather or tinder.

All Malays make pottery, but without special aptitude. Some make the vessels of clay, hollowed out and worked with a piece of metal. As a rule they are insufficiently burnt, and the things remain soft. Yet in some places there are great tileries and potteries. Among the Igorrotes, according to Hans Meyer, pottery seems to be the only handicraft, besides smith's work, that is carried on in a business-like way. The procelain cups and vases of China and Japan are highly valued. Vessels of bamboo stand to earthenware pots in the position of less perishable domestic utensils, and they do quite well to boil rice in. The Igorrotes have remarkable wooden platters with a large cavity for the food and a smaller for the salt. Tabelo has a speciality of making coco-nut oil.

There are real industrial centres, where one industry has begotten another. Thus Nagara, on the south-east coast of Borneo, has a reputation for its manufacture of weapons, and at the same time for its pottery, its shipbuilding, and its mat-weaving. Ilocos is distinguished for its cloth, which provides northern Luzon with its "Ilocos mantles." But all tribes are not equally active in trade; among the Battaks and other Sumatrans it is left to the women; while the Lubus are quite passive.

The great development of seafaring limits the area of internal trade. Since there are few navigable rivers, and beasts of burden are little used, everything is carried, almost exclusively by women, in open carrying-frames of rattan, in water-tight baskets, or in sack-like wallets supported by a band round the forehead; whether homeward from the fields or to market. The trade is principally barter. Even in the remote parts of Central Borneo, and on the Tobah Plateau, the larger villages have their weekly markets in the open air—a combination of business and cock-fighting. They begin early, and are over long before noon. In many districts the market-days succeed each other in a regular order from place to place. These countries, at any rate in so far as they have felt Indian influence, must at some time have had better roads than the "mouse-tracks" of to-day; otherwise the grand buildings of Java and Sumatra would be inconceivable.

With Dutch influence, Dutch money is mostly current in Malay regions; but the Battaks of the highlands recognise only the genuine Spanish *peso;* on the frontier, however, we find also the Mexican. In Lombok, only Chinese coppers are taken in payment. Besides these, gold coins are in demand for purposes of ornament; English sovereigns from the Australian mint fetch fifteen guilders in Borneo. The cleverness of the Malays in counterfeit coining points perhaps to Chinese training.

§ 19. THE MALAY FAMILY, COMMUNITY, STATE

Courtship and wedding—Various kinds of bride-purchase—Wedding ceremonies—Position of the wife—The family and the tribe—Exogamy and polygamy—Forms of kinship—Birth and bringing-up—Political importance of the tribe—*Sukus* and similar institutions—The State: prevalence of small independent communities; despotism or anarchy?—Examples of the sovereign's position in Acheen and Sulu—Preponderance of village aristocracy—Chief's insignia—Political conditions in Bali—Landownership—Slavery—Colonisation International relations—War and peace—Head-hunting; its psychological and historical motives—Cannibalism—Legal matters; law and penalties; ordeals; secret societies; the *Pamali*, *Fadi*, or *Fosso*—Death and burial—Funeral ceremonies.

Among the Malay tribes marriage is based almost entirely on purchase, and the wife is often called "the bought one." Where the number of women admits of it, polygamy is customary, if only as being encouraged by Islam, which is fast gaining ground. Yet among all the simpler tribes people are content with one wife, and here and there the polygamist allows himself one wife in his own village and others abroad. Exogamy and inheritance by the mother are represented, but admit of exceptions,—cases in which ignorance or disregard of marriage are due to insufficient observation.

In Luzon, parts of Borneo, and Sumatra the purchase of a bride is a simple affair; the Ilongote youth has to serve in the house of the bride and to provide pigs and fowls for the wedding feast. A Lubu used to give the bride's father a blow-gun with quiver and arrows, the principal weapons of that people, and in addition offered a dog or, if he wished to do it in style, a pig for the banquet. Now instead of this it is a fowl, a measure of rice, and a small sum in money; besides this the bridegroom has to assist his father-in-law for a certain period in his work. It is otherwise in places where distinction of ranks and capital have created wider demands. The price paid among people of the middle class in Halmahera amounts to eighty Dutch guilders, among rich people in Timorlaut even to one thousand. Besides this, weapons and dishes, in other places cattle, in Sulu even boats, cannons, and slaves are presented. In order that the wife may retain a certain amount of dependence, it is occasionally thought polite to leave a small part of the sum unpaid, but more often the wife defrays the cost of the marriage and the husband gives a present, in which case both sides are equal; or else the man gives nothing at all, and thereby passes into a state of dependence on the wife's family—in the island of Nias even into a kind of debt-slavery. All these varieties of marriage are found in Menangkabau; the Battaks have the first and last form, but among the Lampongs of Sumatra the last is regarded as disgraceful. Divorce shows corresponding differences; if much has been paid for the bride the wife has to buy back the children; but a fixed sum of twenty-five to one hundred guilders is also agreed upon in presence of witnesses before the marriage, and this, in the event of divorce, has to be paid by the guilty party. The most decisive ground for separation is sterility.

The great importance attached to marriage by purchase is, among the more progressive and richer tribes, the cause of such conspicuous incongruities that so long as one hundred years ago it was indicated as the most fertile source of litigation. In Menangkabau it is possible to exchange a daughter-in-law for a daughter. By paying the difference she can be given in marriage by those to

whom she has been transferred as though she had been their own daughter. If the wife goes to her husband he is liable to answer for her in every respect, while she loses the right of inheritance in her own family; if, as is the more usual case, the man goes to the wife, her family has to answer for her. The father is indeed bound to provide for his children under age; but since they do not inherit from him, they are not responsible for his debts, and without the consent of his future heirs he can make them no presents except clothing. If the sum which is demanded for the bride appears to the bridegroom's friends exorbitant, while at the same time there is mutual inclination, they carry the bride off. The parents go out with arms to seek her, but after executing a mimic fight, they come to an agreement about the sum to be paid as indemnity or *jujur*. This is subsequently alleged in public from motives of ostentation to have been higher than it actually was. Many customs bear the stamp of the notion that the wife is the husband's property; thus the Rejangs, when escorting the bride from the paternal house, tread on her big toe.

Corruptions of marriage such as are certain to come about under these conditions are met with especially among some Dyaks of Borneo. The immorality of the priestesses in no way prejudices their chances of marriage; among the Alfurs of the coast of Ceram recognised prostitution exists, and the young girls, called *dojaro*, have a captain over them. There is an important traffic in the much sought-after girls of Nias from Padang to Chinese places and to Acheen. The ease with which Malay women form transitory alliances with foreigners has borne its part in their rapid fusion with strangers. Nearly all the so-called Chinese women in Banca are half breeds from Malayan mothers.

Exogamic marriage is very general. In the hill country of Padang no man marries in his own *suku*, or among the Battaks in his own *marga*. Similarly in Nias, Ceram, Buru, and Timor, the intending bridegroom is bidden to go outside his tribe. Inheritance through the mother is a frequent concomitant. Among the Padang Malays the child always belongs to its mother's *suku*, and all blood-relationship is reckoned through the wife as the real transmitter of the family; the husband being only a stranger. For this reason his heirs are not his own children but the children of his sister, his brothers, and other uterine-relations; children are the natural heirs of their mother only. Traces of this system are to be found among the Rejangs and Battaks of Sumatra. It is, however, to be observed that this everywhere applies to regular marriage only; in such connections as partake of the nature of concubinage the principle of *partus sequitur ventrem*, as might be expected, holds good. We may assume that wherever exogamy is now found co-existing with inheritance through the father (as among Rejangs and Battaks, the people of Nias and Timor, or the Alfurs of Ceram and Buru) this was formerly through the mother; and that the other system has grown up out of dislike to the inconveniences arising from the insecure and dependent position of the husband in the wife's family. With inheritance through the father is connected the custom of marrying a brother's widow. For if the wife has become incorporated in her husband's family, it is they who have to look after her when she is a widow. Hence in Rejang there was a chief with seven wives, five of whom were the widows of his deceased brothers. The order of succession to the father is, first the children—of whom in Halmahera the eldest takes the household furniture, the younger the landed property—then

brothers, sisters, nephews, and nieces. In this system the wife comes off worst. Having been purchased, she cannot inherit from her husband; while, by leaving her paternal home, she has given up all claims upon it, and cannot inherit these either. Hence exogamy and patriarchate as a rule imply the exclusive succession of the male relations by blood.

Courtship is often quite free, prompted by purely human sentiment, and without words; though business considerations sometimes claim a place. In Sulu the bride is often offered for sale. In Halmahera the lads used to intimate their feelings to the girls at the festival dances, by appropriating some of the flowers or feathers which decked their heads. The right of the stronger prevailed here, and no young man attended the feast without sword and shield; but here too the age is grown more peaceable. A few nights afterwards the fortunate wooer will go with his *solepa*, or one-stringed guitar, to the house where the maiden of his choice is sleeping, and standing outside by the wall, will perform his serenade. At first the tune expresses a modest entreaty; then, if affection springs up, the melody changes, and he prays the maiden to twist him an arm-ring of bark. On her side, she requests him to cut her out a piece of paper wherewith to adorn her betel-box; and with that the suit is formally introduced. But the youth may neither see the maiden of his choice nor make any more advances; the penalty for so doing would be a heavy fine, or obligation to marry at once under conditions imposed by her relations. If the courtship is to be published, the girl is awakened some evening by a friend of her suitor's, who either pulls her hair or introduces his finger-nail under hers. This happens again the next evening, but this time the suitor has come too. He sits modestly on the floor behind the door of her bedroom; she conceals herself in token that his request is granted. The rest light torches and go about as though searching for thieves. When the suitor is discovered, they invite him to chew betel with them. If he acts upon their invitation, the maiden is lost to him; so he remains sitting with bowed head. This process is repeated on the two following evenings; not till the fourth does the wedding festivity begin with the offer of betel, which again is surrounded with a mass of ceremonies. In Timorlaut the whole courtship has shrunk into a demand for betel, and the presentation of that highly-esteemed luxury. If the maiden grant the youth's request for *sirih*, his suit is heard, and the two live in a state of probationary association till the dowry is settled.

Wedding festivities vie in pomp and duration with those which accompany funerals. The feast is held in the bride's house; the best pig is sacrificed where the family is heathen, and the guests invoke celestial protection to chase away evil spirits. At Rau on the west coast of Sumatra, where the wedding is got through in one day, the bridegroom, before asking for the bride's hand, makes three ceremonial evening calls in company with his friend, the lady receiving him with hers. The guests present *sirih* and are entertained, while bridegroom and bride converse in poetry to the accompaniment of a tambourine. The mother-in-law does not appear till the third occasion, and then bride and bridegroom eat off the same plate, the lady putting the food to the gentleman's mouth. Then, and not till then, is the object of the visit declared; and if this is done in sufficiently clear terms, it means that the gentleman wishes to withdraw his suit. Among the Maanjans of Borneo, people go on the wedding day, often with presents, to the bride's house, to ask if the bridegroom may draw near. Then

he advances with his relations, a copper dish being borne before them. This is placed upon another, whereon lies an egg which is broken and mingled with the blood of a hen or pig killed over the dish. After the banquet the happy pair are smeared with the mixture. This smearing, which is the operative part of the ceremony, is performed with a piece of silver or iron. It begins at the soles of the feet, proceeding in order to the knees, the pit of the stomach, the hands, elbows, shoulders, breast, forehead, and spine, a special form of words being used to avert bad luck or bring good. The young pair remain nine days in the bride's house, five with the parents of the bridegroom ; then he either begins to build a new house, or goes to one belonging to his father or mother. Among the Trings the young man, after his present has been accepted, works for some time for the father of his intended, and then gives her two slaves. A third present of rice, fowls, and pigs, is made to the mother-in-law immediately before marriage. Here too the couple sit near the copper dish and are smeared with the blood of a victim ; on the second day they bathe together in public, and on the fourth they go, holding a piece of rattan as a symbol of life, in search of an edible fruit, from which, when it is dressed, they ascertain their destiny.

Here and there the bride likes to hide herself to make a show of aversion to wedlock, or to seeing the bridegroom for the first night after marriage, or to being caught asleep, together with her kinsfolk, by the bridegroom on the wedding-day. Among the Alfurs of Halmahera the young man spends four nights with his bride without speaking of the marriage. When the dowry is arranged he sleeps in her room, but is not allowed a sight of her before the dawn. During this period presents and return presents and porcelain dishes pass to and fro, brought by deputations from the kinsfolk and friends, and on every occasion there is great festivity. The bridegroom is entitled to seize the bride, but he avoids doing so, as though the custom had fallen into disrepute. The concluding ceremony of betrothal consists in the preparation of a meal by the bride with a ceremonial form of words. Where the custom has been brought into harmony with Islam little is expected, at most a visit to the mosque on the wedding-day and a small tribute for the priest, all subsequent marriages being simply purchase. In Timorlaut, a boy and a girl, as symbols of the blessings of offspring, are placed between the couple at the wedding feast, while among the Tinguians of Luzon a boy sleeps the first night between the newly married pair.

The position of women is in general by no means low ; among Mussulmans indeed she is less well off than among the heathens. Writing of Timorlaut, Riedl says, "The husband never beats the wife ; it is quite the other way." There are variations also in this, but in all respects the woman is highly valued ; in the blood-tariffs many a woman is valued higher than a man, the proportion among the Rejangs of Sumatra being as 150 to 80 ; only the highest chiefs are superior to their wives. The purchase money of a bride is accordingly no cheap business ; if marriage was a mere matter of purchase, the wife would become the husband's property, and after his death she and her children would become the property of his heirs. The social position of the wife is raised where both sides bear the cost of the wedding, and it is best of all where the marriage is concluded on the basis of *ambil anak*. Here indeed the husband pays nothing, but is liable to render service and has no right to the children. This method was chiefly in use when only one daughter remained of a family and the family had to be preserved

hrough her marriage, but it gave rise to so much litigation that it was forbidden mong the Rejangs. Connected with the varying ratio that prevails between narriage by purchase and social position is the higher position of the woman vhich we find among the Maanjans of Borneo, among whom no betrothal is oncluded before the youth and the maiden are agreed. The young man, owever, does not pay any dowry, his expenses consisting of a few guilders paid to he witnesses, of which the bride contributes half.

Female sovereigns occur among the Dyaks, but only in isolated cases. Very ttle weight can be attached to the appearance of women in popular legends as ounders of dynasties, it is merely the cosmogonic idea of the earth as the original nother. Priestesses in the same way are the mainstay of the most immoral ustoms ; we cannot look for any enhancement of the dignity of the female sex n their position. But we may account among the signs of woman's higher osition the heavy penalties with which adultery was visited before the time of he disintegrating influence of Islam and Europe. Among the Acheenese the vife's relations make a circle around the guilty man and give him a weapon vherewith he may make his way out ; if he succeeds in doing so he is all right, f not he is hewn in pieces and buried on the spot. By the laws of the Rejangs eavy fines were inflicted for concubinage, illegitimate births, and even births ollowing too soon after the conclusion of the marriage ; a similar disposition pre- ailed in Celebes. Foreign influence has caused adultery to be lightly regarded mong the Tagals of Luzon, but the Igorrotes who remained untouched by it everely punished indiscretion on the part of girls, and beheaded adulteresses, hough now, according to Hans Meyer, they take a more lenient view of the ffence. In Sulu the Spaniards saw adulteresses put in irons for life. The death f the husband does not merely set the wife free ; in Sahu she can even leave her hildren to the husband's brother and re-enter her own family.

As regards the division of labour between the sexes, the wife helps her husband n field-work while the house-work falls to her sole share ; in the former, however, he man takes the hardest part, while reaping is more the wife's business. The ule is observed here that the more laborious a race the fairer is the division f labour.

Before the birth of a child the mother has to observe manifold rules involving he interpretation of omens and the choice of days. Neither she nor the father nay look at a mirror nor into a bamboo tube, as otherwise the child will squint ; hey must not break up tobacco or *sirih* in the betel bag, but before doing so take hem out. Even the men may not work at a house, nor roof it, nor drive nails in, or go in at a door, nor up a ladder, otherwise the child may not be born. Old vomen assist at the birth, which often takes place in a hut far from the dwelling ; hen begin the preparations for naming. Among the Dyaks, so far as they are till head-hunters, the father must first take a head ; among the Ilongotes the ame is not given till the fifth day, in Sahu not till the ninth year. Beast names ccur recalling those of the tribes. The father gives the name, and especially in laces where the soul of an ancestor is deemed to exist in the child ; then the ather also assigns this ancestral name to himself. At the birth of a second son e takes his name also, so that the more sons the more names. Infanticide is ommon, and is specially practised in regard to the second born of a pair of twins.

Entry upon adult age is denoted among some Dyaks by the seclusion in a

forest house of those who have attained that time of life, also by circumcision or the adoption of the bark belt. After this the youth has his place in the bachelors' sleeping-house, and is bound to take a head as soon as may be. Separate sleeping-houses for girls and youths are very common. Other signs of maturity are tattooing and teeth-filing. Boys practise themselves with bow and arrow, and, among the head-hunters, in decapitating straw dummies. Even where weapons are no longer used by grown-up people, as is the case with the bow in Java, they remain as children's playthings. Among the tribes that have grown up in a state of nature, as is well known, only warlike excellence is inculcated. Girls pass the period of their first maturity in huts apart ; in Ceram, in cages. Among the Alfurs of that island they are then, after washing and adorning themselves, anointed with palm-oil, and made to bite off a piece of banana and fish, which they spit out again. Teeth-filing and tattooing frequently take place at this time ; or, if neglected, the omission is retrieved at the first pregnancy. Girls as well as youths are distinguished from the married people by a ring of white shell on the upper arm. Among the Western Malays the girls are kept more strictly than in the East. In the former region they are accompanied by duennas, while in the latter they usually go about at liberty, especially at the feasts, with their general dances. Thus among the Alfurs of Halmahera almost every engagement may be traced to the lengthy dances at funeral feasts. The Battak girl will bathe tranquilly and composedly before men, who cast down their eyes as they pass ; but to a genuine Mussulman Malay this would be the height of disgrace.

The basis of the state is the family tie, any developments which extend beyond this betray their unspontaneous character by indications of foreign origin, or by their constant tendency to break up again into the old patriarchal elements. In spite of the depth to which Indian influences have penetrated, strict caste distinctions do not exist. In Sumatra the old Malay state is built up from the *sukus*, that is the families and septs which together compose a tribe, and of which the heads or *pangulus*, also called *pangkarans*, rule the land. As many *sukus* as there are in a village, so many *pangulus ;* and the whole country side is ruled by the *pangulus* of its villages in meeting assembled ; as a rule, the dignity passes to the uterine brother or the sister's son. The chief function of these headmen is judicial. Besides marks of respect and obedience, they receive a tribute of rice and presents on festive occasions. The cost of their wedding and funeral is borne by their subjects ; they can only be deposed for gross violations of law and tradition. The origin of the *sukus*, the name of which—meaning a quarter—is hardly suitable to their great number, remains obscure. But a legend relates that the people of Tanah-Datar were composed of two tribes which divided into four branches. Later, when the population increased, many sukus were distinguished by separate names ; now there are, as a rule, four to six in one village.

Next above the *suku*, as a larger subdivision of the people, comes the *lara*, the position of which is not completely explained as given in historic legend. Perhaps it must be referred to mutual exogamic marriage between two *sukus*. Organisation in pairs is frequently found also in other Malayan districts. Among the Battaks, where the tribes which have distinctive names are called *Margas*, the territorial unit corresponding to the tribe known as *Kuria* was originally inhabited by a single *marga*, but this has been now replaced by duality ; one *marga* is that originally in possession, the other is the guest, and the two stand in a position of

nutual inter-marriage. Eastward, in Buru and Ceram, the term *hena* denotes like tribe and district, because every district is still inhabited by one particular ribe.

Among the Alfurs of Halmahera, Ternate, and elsewhere, the *tofas*, within which marriage is forbidden to the fourth generation, correspond clearly to the *ukus* of the West Malays. If this system appears to have become obliterated in he Philippines and Formosa, still the dependence of plebeians on plutocrats, the *Abitags* and *Baknanges*, such as Hans Meyer describes it in Benget, recalls the ases in which a *marga* holds the position of guest. Among the Lampongs we nay recognise similar principles. Here we meet with a still more perfect refinement of the tribe and village constitution. Every district or *marga* is made p of several villages,—seldom more than ten,—is governed by an independent hief, and named after the tribe. Each village again is divided into a number of uarters, with a head man in command of each, all the others being subordinate o the head man of the senior quarter. The foundation of a new quarter requires he consent of all the chiefs, and until this is given quite a large number of newly-ounded homesteads remain dependent on their founders. Accordingly, here as well s in the *suku* constitution, all relations of dependency are regulated according to he connection of pedigree, for which reason even the sovereign may only address is subjects as tribesmen while the head of a family calls his children and cousins. This coincidence of tribe and district is very widely found, the Island of Nias is ll divided into fifteen to twenty-five districts, and the people into a similar umber of tribes.

In Malay countries we find originally village states; thus in the independent arts of Formosa the tribes live side by side in villages, and the island of Goram, ess than ten miles in length, is broken up into twelve lordships. Larger kingoms have arisen in Tagal territory only where Islam has got a footing, as in Mindanao, Sulu, and the shores of the bay of Manilla. Besides these there were hree kingdoms, vassal to the sultan of Tondo, and over these again strangers uled—half-breeds from Malays of Borneo by Negrito women. Similarly, even mong the Malays of Sumatra Javanese have taken a great share in founding more owerful states like Palembang upon an Indian pattern. For this reason comrehensive names for races and countries are often lacking. The Formosans have o general name for their fellow-islanders, a token of their feeble political developent which also causes frontiers to remain indistinct. In Malay annals quarrels bout frontiers play an important part. The bond of union is always association n a tribe; the Maanjans formerly were under Majapahit, then under the Mussulman kingdom of Martapura, and finally under the sovereignty of the Dutch. Thus their independence was lost, and with it more than once the local onnection of the tribes, but they have always found each other again. In the hilippines a chief aim of Spanish statecraft was to break up the old tribal llowships and the village states or *barangays*. The inhabitants of several *arangays* were compelled to leave their homes and settle down together in one lace, the new village forming a single commune under the name of a *pueblo*. ut in the *pueblo* the members of the same *barangay* would settle down together, nd so it broke up into fractions retaining the ancient name. Those who had een *dattus* were made alcaldes and collectors of the poll-tax. Villainage and lso slavery were done away with, and the chiefs thereby deprived of the

substantial basis of their influence. Christianity also, by turning the *pueblo* into a parish, contributed its share to the weakening of the old organisation. This, however, is so deeply rooted in tribal sentiment that each clan lives on its own *barangay* and treats its own *Cabeza* with reverence, and it was not until natives began to be ordained in large numbers that inferiors went over his head; not, however, without some loss in the respect paid to the clergy. The villages are often called by the name of the oldest inhabitant.

The scattered nomad tribes are yet a stage lower; they, like the gipsies, recognise only an elected chief, which does not preclude his being chosen by preference from a special family. The Negrito hordes of Luzon often consist of only twenty to thirty souls; they are historic instances of tribes formed by the breaking up of larger races.

Even in the bigger states the *sukus* and their *pangulus* are often conspicuous as the elements which decide the nature of the community. In the genuine Malay constitution they are the rulers, while the rajah or sultan is only their delegate. Hence in most cases the constitution is a transitional stage from the patriarchal form to a confederated aristocracy tempered by representative elements. The leader of the tribe is the protector of his subjects, has to redeem them if they fall into slavery, is allowed to pledge them, draws the chief of his revenue from money fines, and has control over wood and meadow land if there is no arable. Even where the sovereign himself has the reins in his hands it is this rank which supplies the official posts at court and in the country. Below this hereditary aristocracy, which is also an aristocracy of property, and frequently is subdivided into a higher nobility consisting of relations of a former sultan and a nobility by patent composed of officials and monied classes, stand the people proper, those who have to work, pay taxes, and render service. Last of all come the slaves.

According as this fundamental arrangement subsists or has been ruined by sole monarchy, the Malayan state approaches anarchy or despotism. Thus in Sulu the dignity of the sultan is only nominal, the real power is in the hands of the magnates or *dattus*—among the Lubus of Sumatra the witch-doctors—who govern the districts and islands as fiefs on a life tenure. This nobility, from which the ministers also come, forms a council in which the influence of each *dattu*, often receiving expression by force of arms, is proportioned to the extent of his estates and the number of his slaves; and without the consent of this council the sultan can issue no orders. Even where the sultanate is hereditary the understanding that a relative may be nominated as his successor offers a wide opening to free choice, and the members of the council are all more or less related to the sultan. All revenues, even the fines, are divided among the whole government; the sultan gets only his allotted share, so that he has to send out his own slaves on trading or plundering expeditions. Monopolies such as that of coffee, which has made the Rajah of Goa in Celebes a millionaire many times over, or the tin monopoly enjoyed by Palembang over Banca, can only be imposed under European protection. More limited sources of revenue are found in the forming of royal rights such as those of fishing or rattan-cutting. Next to the inviolable prime minister, who has to superintend all the transactions of the sultan and the nobles, to the admiral and the minister of justice, stands the "tribune of the people"; but his influence is as a rule only recognised so far as

: agrees with the views of the *dattus*. The legal code of the Malays is here nknown, and the precepts of the Koran are scarcely followed. There exists no rotection for property; the *dattus* are fond of carrying off boys and girls; and a evy *en masse*, such as has often terrified the Spanish officials in the Philippines, ffords a gleam of hope, since so long as a war lasts, it forms a check to the awless treatment of the non-governing classes. Where this many-headed espotism prevails, and religious fanaticism does not stir up hatred of foreigners, European sovereignty is regarded by the lower orders as a deliverance.

Under the corroding influence of Brahminism the little island of Bali is roken up into nine kingdoms, which by means of four pervading castes, and hrough the importance of influential families, encroach upon each other. Within ach little country there are clans, often several in one village, of which the most umerously represented is predominant, though the others pay no special bedience to it. Caste sets a number of citizens free from all burdens while oading others with tasks. But in general the Balinese are tolerant in spite f the obstinacy with which they have clung to the worship of Siva. To he *dattus* of Sulu correspond in Acheen the *panglimas* or *tuwankus*, the ereditary presidents of the *sagi* sub-divisions, who not only form the sultan's ouncil, but also elect his successor, and even have authority to depose the nonarch. They are not obliged even to inform the sultan of their arrangements, while he must not only submit to them at all times, but must, whenever he undertakes anything, admit the Panglima to his confidence in regard to it. He has to ay them a yearly compensation for the internal taxes which they collect for im, his own revenue consists of 5 per cent of the value of all goods which are mported into the harbour of his capital, as also from the income raised in the *Sagi* divisions on imported goods and on the sale of pepper, usually not more han three or four thousand pounds. In the old Malay states of Sumatra again he government is an absolute monarchy only in name; in Sambas the sovereign s elected by the high council of sixteen, and is at bottom only their president. On the other hand, in Pontianak and in Secadau the monarchy is absolute in act, but the oppression is the same everywhere. The nobles trouble themselves bout nothing but the fines, and practise extortions on the wealthy and prominent nen who act in the same manner by the people. The protection of European overnments has often increased the native princes' means of acquiring power, so nat rulers in Java sought in pompous extravagance a consolation for their lost ndependence. Similarly in conquered territories their authority has grown, the Sultan of Kutei raises *ad valorem* duties of 10 per cent on imports and exports, arms out the monopolies of opium and salt, works the coal mines of Pelarung and Batu-Pangal as part of his prerogative, and is besides the usurious banker of his ubjects, getting an income of a million guilders. Where, as in the case in Tobah, religious motives allow to the ruler the position of a little pope, we see the everse of the shield. In that case the Panglimas depend entirely on the rajah and re mere officials. The position of this ruler is strengthened by a tone of popular ondescension, especially at festivals; though the subject approaches his lord terally grovelling, he may talk with him freely and bring forward his complaints. Smaller rulers are not sharply distinguished from their subjects either in appearnce or in their houses. In Jambi, Veth found the residence of the mighty ultan marked off from the other houses only by a somewhat broader ladder to

his pile-built palace. Apart from Java and some part of Celebes and Sumatra, population in the Indian Archipelago is in no way dense, and for this reason the rulers are shy of driving their subjects across the frontier by severity. The enlightened Sultan of Kutei used to send ships to the Amontai district in Borneo in order to stimulate immigration, paying the debts of the colonists and giving them free land.

The insignia of chiefship are in their original form simple. Among the Tobah-Battaks the rajahs wear ivory rings on the upper arm; ornamental weapons, silver-mounted daggers and swords, or guns with costly stocks, are also given to messengers as their credentials. Among the princes who have felt the influence of Indian Mohammedanism heavy gold crowns richly jewelled, and gold-embroidered uniforms are usual.

The tribes have the use of the land, but the prince claims the ownership of it whenever he is strong enough to do so. Uncultivated land is common, but any one can cultivate it on his own account, and make it into property by his labour. In Timorlaut there is no such thing as sale of land, whereas Battak chiefs sell their land in every form. In Holontalo sale and demise of landed property can only take place with the chief's consent. The right of the tribe to the ownership of the soil is stoutly maintained. An attempt on the part of the Dutch to move some tribes in Borneo lower down their river failed, because the people feared that the descendants of the Dyaks, who had formerly been settled there, would demand tribute from them, as they were entitled to do. If no heirs are forthcoming, the property is voted by the people to one of the head-men. Individuals certify their right to property by hanging up dolls. A branch which overhangs another man's land belongs to him.

Colonisation, in the form of conquest and settlement beyond seas, plays, especially in the east, a part reminding us in its importance of the Greek migrations. It would hardly be possible to name a race, however small, the traditions of which are not based upon a migration, and every coast-district shows foreign elements which have made their way in uninvited, and often to the detriment of the older populations. Numerous legends tell of fraternal dissensions, sicknesses, or elemental catastrophes, as the causes of colonisation. Rights of conquest were granted by the rulers of Ternate to noble families, and these became viceroys with semi-sovereign power, in Buru, Ceram, and elsewhere. Colonisation was also regulated in the country itself. In Java, where, as the population increased, clearings had to be made at points lying too far from a village, a party of settlers was sent out, and these as a rule remained in union with the village whence they came. Among both Malays and Battaks in Sumatra, and also in North Celebes, special names are found for these daughter-settlements. Perhaps certain political partnerships are connected with this; thus the rulers of Ternate and Tidor treat each other as near of kin.

Slavery, which has not much hold among the simpler races, is strongly developed among the "town Malays" of Palembang, Acheen, and the like. It affects prisoners of war, malefactors who cannot pay their fines, and other debtors, among them not a few who have gambled away their liberty; whole tribes have become enslaved through debt. Illegitimate children, whether the parents are free or slaves, come into this class. As a rule slaves are treated as members of the household, can buy their freedom, and in practice are not inferior to poor

elations who have been taken into the house for the worth of their service. Rejang law recognises temporary slavery as a penalty. Slave-capture and lave-trading is a chief line of business among all Malays who trade in ships of heir own. Bali, where the men were valued as soldiers and the girls as mes-engers, to the extent that in Batavia there is still a "Balinese village," lost a great art of its population in this way. In the states which have been conquered by he true Malays, the distinction between gentlemen and plebeians is often so sharp hat one may speak of serfdom. The transition from freedom to slavery is found n the Ilapitas, who work in the paddy fields of the Holontalos, and wash gold for he chief, without wages; the Mongohules, who, as descendants of a particular race f slaves, assist their lords only on festive occasions, and lastly the Wakos, who re slaves acquired by purchase, exchange, inheritance, or gift.

The tribes are quite as exclusive towards outsiders as they are self-contained. Every tribe demands not only the sole use of the territory in which it lives, but lso requires respect for its usages, for its graves, for places which it has declared *adi* or *pamali*, and which it protects by crafty traps. Other causes also contribute. Among the Ilongotes individual tribes fight fiercely with each other, though for he most part only within the families concerned in the matter; but when there s any question of a campaign against Christians or Negritos, friends and foes ombine. Head-hunting, kidnapping, and piracy of an incredibly impudent kind annot be eradicated in the Spanish and Dutch territories. On the other hand, where the tribes have not been corrupted, hospitality towards white men is carried o far that the traveller may take up his quarters tranquilly in any house of a *ampong* that he pleases, without any danger of an unfriendly reception. The tory that the Dyaks have a tendency to poison strangers who enter their erritory has been stated, at any rate in South and Central Borneo, to have o foundation.

The frequent state of war caused prescribed forms to grow up for declaring war, making peace, and contracting alliances. War was never carried on in blind age, but in a chivalrous, almost sportsmanlike fashion. The Battaks, before aking up arms, announce the war by a cartel, and negotiate for days together in ery speeches, while neighbouring chiefs try to effect an accommodation; at the nd of everything, the first death is decisive. The cartel consists of a piece of amboo a span long, on which are written the grievances and the declaration of war, a bundle of straw and a bamboo knife, to denote fire-raising and throat-cutting, nd a spear-head of carved bamboo; the whole being tied up in a bundle and ung up at night where the enemy will see it. Among the Ilongotes war is ignified by a bundle of arrows or the sprinkling of the road with blood. But in pite of all this, war does not break out unless some decided act of hostility is ommitted within eight days. Peace is often, unhappily, ratified by human acrifices: and mingling of blood exalts friendship to the rank of blood rotherhood. Small quarrels of daily life are appeased by the *sirih*-box, which is not made costly and ornamental for nothing, and is a means of econciliation like the tobacco-pouch or rum bottle elsewhere.

Ever since the Malays have been known, the habit of cutting off heads with a iew to the acquisition of trophies, head-snapping as the Dutch call it, has been ne of their most successful institutions. Martin de Rada, provincial of the Augustinians, reports its existence in Luzon as early as the year 1577, and up

till the present time this custom of prizing the skulls of enemies has held its ground among savage Dyak and Tagal tribes in spite of vigorous opposition on the part of the colonial authorities. Head-hunting flourishes also abundantly in the east—for example, in Ceram. In order to understand the persistency of this custom we have to realise that it has a religious basis in the worship of skulls universal among the Malays, owing to which the skulls of enemies must have appeared the most desirable sacrifice which could be offered to ancestral spirits. Where Christianity or Islam have gained a footing, skull worship and head-hunting with it have rapidly decreased within a generation. In North Borneo the skulls lie among old lumber. Among the Igorrotes, according to Hans Meyer, the only thing that survives is the dance accompanied by the singing of a derisive song round the bare pole on which the skull was formerly stuck. Among the Ilongotes before the marriage ceremony is completed, the bridegroom has to bring the bride a number of human heads, those of Christians being preferred. But the Dyaks are said to fancy Dyak heads only. Heads are also in demand to place under the posts at the foundation of a house as a gift to a dead man, or to ornament the hall of a chief's house; none but a successful head-hunter is entitled to be tattooed. Skulls are also used for drinking cups, while the teeth and hair serve for the adornment of the body and weapons. When the Dutch have taken skulls away from head-hunters, these have declined to give up the scalp and the lower jaw. By the unwritten common law of these tribes cutting off heads is the only effective form of settling tribal enmities. Head-hunting, though it originally proceeded from religious and political motives, soon extended the circle of its victims, and the desire of possessing skulls became a passion. Every neighbouring village almost was looked upon as hostile, and heads were cut off even when a sleeping man had to be killed to do it. A further psychological motive for the practice lay in the decay of blood feuds owing to idleness; the Dyak is lazy and will stroll patiently about in the neighbourhood of the paddy fields until he gets a good opportunity of falling upon one or two defenceless women and children. "Only once has it occurred,"

Basket of a Dyak head-hunter, with half a skull hanging on it. (Munich Museum.)

ys Michaelsen, "that a Dyak of Serajen, whose daughter had been murdered
y a head-hunter of Katingan, followed the murderer and cut his head off
ctually at the festival which was being held in his honour. The deed caused
ch terror that the man who had dared to do such a thing in vengeance for his
ild was allowed to depart unhindered with the decapitated head."

Head-hunting is carried on systematically; the Dyaks prepare for it by
eligious consecration. They build themselves a hut with a roof on four posts,
nd the floor raised a yard high; the entrance is barred with coils of rattan which
e hung with red flowers, young palm leaves, and a quantity
little wooden images of swords, shields, spears, flying
ornbills, and the like. Inside the hut are spears, blow-
uns, quivers with freshly-poisoned arrows, shields, swords,
nd cuirasses, enough to equip a band of head-hunters. In
is hut the company stays for a period of four to six days
ccording to the omens. Before they leave it they hide in
e ground a number of rudely-carved figures equal in
umber to their numbers in order to appease the evil
pirits. Any man who does not belong to the band is for-
dden, on pain of a heavy fine, or even death, to approach
e *balei* hut. The victim's property is untouched, and
e Alfurs of Ceram before they place themselves in am-
ush even warn their victim by damaging his fruit-trees and even breaking off
vigs.

Small head-basket used by Guinans of Luzon—one-third real size. (Dr. Meyer's Collection.)

The connection of this practice with cannibalism, which crops up here and
ere quite independently of the stage of civilization, is indicated by the various
es to which the skull and other parts of the human body are put. One practice
eplaces the other—thus the Battaks are cannibals and the Dyaks head-hunters;
Timorlaut alliances are clinched by eating a slave. In North Borneo, the
eople of Sulu, who are alleged not to be head-hunters, bind their victim and pierce
im through the breast with spears, and every one belonging to the village gives
slash to the quivering body. After that they bury the corpse without taking the
kull; "the chiefs of Sulu do not wish that." Their neighbours catch the victim's
lood in little bamboo pails in order to sprinkle their fields with it. According to
ock the Bahu-Trings eat the bodies of their victims, while the skulls are dried
nd become the property of the chief. A. B. Meyer has no doubt that the custom,
hich Mas reports as existing among the Ifugaos of the Philippines and in Borneo,
swallowing the brain, prevails to the present day in North Luzon. The Alfurs
f Ceram lay the skull of a freshly-killed man in the foundation of their common
ouse. Even though among the Battaks in recent times cannibalism is no daily
ccurrence performed at the discretion of individuals, but is only employed in the
ase of prisoners of war or criminals of a bad kind, yet there are evidences that
e prevalence of this bad habit was formerly more universal. Human flesh is
id to have been sold in the Battak country in open market, and certain rajahs
e alleged to have eaten it daily as a matter of liking, and people have also eaten
eir relations when ill. A simple question of money has played no small part
the difficulty of eradicating cannibal habits. When a *tiwa* feast is held in
nour of a dead person, it is clearly cheaper to slaughter six slaves at 100
uilders than six buffaloes at 150.

The Malays are not devoid of fighting spirit, though large populations, like the Javanese, have been enervated by long subjection. It is impossible to deny courage to the thousands of Bugises who are devoted to piracy, or the bold slave-raiders of the New Guinea coasts. The Dyak is a born warrior; in his weapons the requirements of modern perfection are replaced by thorough adaptation to the country, and the dexterity with which they are used. The training of boys proceeds mostly in the direction of arousing military valour; war-dances, religious ceremonies at marching out, talismans, are aids to courage. In Timorlaut a butterfly is swallowed. Women and children often take part in war. The Battaks fetch champions from a distance, as from Acheen; and their confidence is proportioned to the distance whence they come.

Chief and dignitary of Nias. (From a photograph.)

To the tribe and its communal groups falls also the duty of punishing criminals; and especially in the event of the criminal's insolvency to arrange for the payment of his fine. But they have also the right, as an alternative, to expel him; which puts him in the position of an outlaw, since personal protection can only be guaranteed by membership of a tribe. Further, the chief cannot enact a new law without the consent of the tribe. Malay jurisprudence, even though the conception of law and the judicial position are unknown, rests on usage; *adat*, handed down by tradition. It has passed the stage of private retaliation, and has advanced to the infliction of prescribed penalties. The transition appears in the fact that in a case of adultery the injured husband is free to kill his wife and her paramour if he catches them in the act, or until the trespass has been brought to the notice of the chief; in Nias he can even demand assistance for the purpose. But if he misses the moment, the offence must be dealt with by law. The same applies to theft and homicide. In Johore, even a blow in the face can be punished with death; but it must be within three days. Cases of lynching have occurred even after the police had taken charge of the offender. When the law comes into operation, almost every trespass can be atoned for by a money-fine, and even this becomes superfluous since the injured party is satisfied if he can be indemnified by means of private agreement. If any one is suspected of theft, the friends of the person injured try, in the first instance, to ascertain whether the thief has the means to offer an indemnity. Indemnity or recompense is the right word; the notion of "penalty" generally goes no further than private or blood-revenge. In the prosecution of a criminal

d the levying of the fine the community of tribal action is among many tribes ry striking. In Macassar the atonement for a male slave is 20 *reals*, for a nale 30, for a free man 30, for a free woman 40, for a man of noble family 80. nong the Rejangs of Sumatra, according to Marsden, it is 500 dollars in the ghcr class of chiefs, 250 in the lower, whether for man or woman, 150 for a free an's wife, and 80 for himself. Among the Pasemahs the atonement for a ld of one of the higher classes is equal to that for a man of the next lower. ounds above the hips cost more than those in the lower parts ; and those inflicted th a kriss more than those with a stick. That the system of money compen- ion leads to abuses will be obvious ; in the case of adultery it is absolutely made source of profit. In South Borneo, ladies who overstep the limits of conjugal elity are not unfrequently in most demand, because of the rights which their sbands acquire to heavy fines. Affronts are also very frequent, since among the its of the Malay character is an almost morbid feeling of the honour which due to a man. A contemptuous look, a slight blow, the act of stepping over person who is lying on the ground, often enough lead to homicide.

Theft and adultery are the usual offences, while murder, serious wounding, endiarism, and other grave misdeeds have, in some of the smaller territories e Buru and Engano, not occurred within the memory of man, which accounts the high standard of penalties, particularly of theft ; it is usual to burn ghway robbers.

Appeals to the judgment of God are still frequent ; especially trial by fire. mmon forms of ordeal are ducking, pulling a ring out of boiling oil, or licking d-hot iron. In cases of obstinate denial, or where the ordeal is indecisive, ger of battle decides in Timorlaut. The Tagals have borrowed from Christians e trial by candle, in which a consecrated candle, being lighted, bends towards e guilty person. Among the Igorrotes the two parties to a suit have the backs their heads scratched with sharp splinters of bamboo, and the one who loses st blood loses his case. A form of divine judgment which here also occurs is rived at by testing the size of the gall of a hen which has been roasted to death. perstition encroaches upon penal law in so far that on great emergencies persons ilty of adultery or incest are put to death to propitiate the gods. Among the ubus, when a man has to take an oath, the witch-doctor administers it in the rmula, "May I be torn to pieces by tigers, carried away by water, swallowed by codiles, and killed by snakes if I am not speaking the truth." Among the furs of Halmahera the oath is confirmed by drinking water in which weapons ve been dipped ; among those of Ceram, the persons swearing dip their weapons o a little cask of arrack in which are placed a small wooden crocodile and an ill- voured human figure ; sentence is pronounced frequently beside sacred trees or nes. In Ceram, a league resembling the secret societies of the Oceanians grew process of time into a judicial league, the chief aim of which was the settling disputes without the interference of government. Every participator has a ss tattooed on his breast ; persons are admitted at fifteen or sixteen years of e, and for fourteen days before admission instruction is given by a teacher in remote hut. The league has a tripartite council, which, on occasion, finds a nction for its sentences in decapitation.

The *pamali*, *pali*, *fadi*, *fosso*, or *sassie* of the Malay races is not simply equivalent the taboo of the Polynesians, it has more the sense of the Micronesian *mugul*,

that which is well-mannered or lawful. Most nearly connected with it is the *uhum* of the Dyaks, it is only when it is employed for religious or political purposes that it acquires the stricter character of taboo. Places are tabooed commonly by hanging up a bunch of palm leaves; they have either been so from ancient times or they are declared *pamali* by old men on the ground of their experience. The Alfurs of Halmahera are even forbidden to look upon the sea; the prohibition of certain foods, such as apply to venison, pork, and various kinds of fish, require *pamali* to enforce them. Any contact with the wife of another is declared *pamali* in Ternate; whole villages become *pamali* owing to a death, and inflict punishment for any infringement of it. The obviously arbitrary character of the tabooings permits of a thing being set down as unpermitted by reason of a dream.

The *fadi* of the Malagasies, again, is not the mere taboo of the Polynesians overshadowing relations of every kind; it means much the same as forbidden, unlucky, not to be touched, sacred. Hens are *fadi* in the district of Behare on the south coast of Madagascar; and consequently no hen may come thither, and the shooting of birds is forbidden. Elsewhere the dog or some other beast occupies this position, perhaps with some reference to the *kobong* or totem. The monthly *fadi* days exercise great influence; any child who is born on unlucky days of this kind is buried alive, as Grandidier quite recently reported in regard to the Antanosses. Tender parents, by means of money and good words, obtain permission for the sacrifice of a finger-joint to be accepted as atonement for arrival on an unlucky day. A great part of the influence of the chiefs rests upon the fact of their being credited with a knowledge of lucky and unlucky days in which astrological considerations appear to be involved. In Imerina, every idol had formerly his *fadi* day upon which those who were specially dedicated to him did no work, and thus, even at the present time, every Hova of high rank abstains from particular foods on his *fadi* day and passes it in complete seclusion.

Numerical superstitions are expressed in many curious ways. The number one arouses apprehension, and, accordingly, to every burden at least two bearers are required; on the other hand twelve is a good number—the king has twelve wives, there are twelve sacred places in Imarina, and twelve royal ancestors; twelve capital crimes, and twelve executions for them. We find the same capricious tricks of thought as in fetish superstitions.

§ 20. THE MALAGASIES

Madagascar—Its people—Negroid and Malay elements—Reported dwarfs—Influence of India, Europe, Arabia—The family: children and naming—Marriage—Blood-brotherhood—The polity—Classes—Slaves—Constitutions—The Hova kingdom—Historical sketch—The king—All property vested in the crown—The sovereign as high priest—Laws—Ordeals—Military affairs.

MADAGASCAR[1] is one of the largest inhabited islands. With an area of 250,000 square miles, in a genial climate, endowed with a good soil, and well watered, it offers not only space, but all the necessary conditions for the development of a

[1] The name Madagascar is given to the island only by the Hovas, who called themselves Malagasy, in contra-distinction to the other tribes. The inhabitants of the adjacent islands use the term Tari-Be, or Great Land. The Swahili call it Bakini. The name in the form Madagascar occurs in Marco Polo.

pecial race. It is 250 miles from the east coast of Africa, 450 from Bourbon, 350 from Arabia, and about the same distance from India. The southward set of ne currents isolates it still further on the south and west; but the north and east oasts are washed by the tranquil waters of the Indian Ocean, with its regularly ecurring monsoons; interrupted, however, too often by devastating cyclones. The est harbours are on the north-west coast.

Madagascar is mainly a country of highlands; most of the interior consists f lofty plateaux and mountains, rising in the summit of Tsiafazavona to 8635 eet. The cool bracing climate of the Hova highlands has doubtless contributed o make the people what they are. There is a narrow belt of forest on the evel coasts, then swamps and morasses, followed by gently-rising swelling plains, vhich gradually ascend in steps to the plateau of Imerina, crowned with peaks. This forest and meadow region is the most promising district in Madagascar; on ne highest plateaux heath prevails. The small extent of forest may be explained y the unequal distribution of rainfall over the year; but a good deal of wood as been burnt, a common practice of the Malagasies with a view to obtaining rable land. Lying as the country does within the zone of trade-winds, the ontrast between the wet and the longer dry season is heightened. No less in ne highlands than in the low coast country droughts alternate with inundations, nd the lie of the ground causes great inequalities in the rate at which the water uns off. The lagoons which lie in a long chain, especially on the east coast, orm to some extent a substitute for rivers. The native flora supplies no part of ne food of the people; but the prairies of the coast and the grass-covered surface f the interior support the herds of cattle which play an important part in every epartment of Malagasy life. The best arable land is found where woods have een burnt. The coast is fringed with the coco-palm, perhaps indigenous. The ago-palm also grows, but the natives make no use of it. The most useful palm s the Rafia (*Sagus raphia*), of which the midrib of the leaves, some 20 feet long, nd the delicate pinnate leaves, afford an admirable fibre. The plaiting of grass-nats, hats, and baskets is a great occupation of the Malagasy women. In some arts of the coast and in the Betsileo country the poor people use grass mats as lothing, houses are thatched with grass, and rafts, after the fashion of bamboo-afts, are built with the light three-edged stems of a papyrus-like sedge. In the ighlands, where wood is scarce, grass is almost the only fuel. There are many ye-plants, and indigo is cultivated.

In few parts of the earth does man come so little into contact with the native auna as here. It would seem as if imported plants and animals had had a far vider-reaching influence than those indigenous to the country; no instance has een met with of real domestication of a native animal or cultivation of a native lant unless the coco-palm be one.

Though compelled by its situation to link its fortunes with Africa, Madagascar s, so far as the national life is concerned, wholly detached from that continent. t lay, doubtless, from an early period, widely open to Asiatic influences; ve can even at this present day trace to Southern Asia the separate origin of portion of the population. The basis was, however, no doubt African, and the tage of civilization which this island, destined to be so important, has attained, s rather African than Asiatic in its character. The course of its history has een aimlessly split up, with no influence on the sum of human development;

the part taken by Madagascar in the history of the people surrounding the Indian Ocean has been as imperceptible as that of East Africa.

We can perceive in the Malagasy population a great variety of physical characteristics. Their colour is of all shades, from the light bronzed yellow of the southern European to a deep brownish black; their hair of all kinds, from the African wool to the stiff straight-haired shock of the Malay; their physiognomy of every type between Negroid and Mongoloid. Sometimes we find all these peculiarities occurring in different degrees in the same stock; sometimes obviously distributed among different stocks. The broad division into the two main component groups, Malayan and African respectively, of Hovas and Sakalavas, is as unquestionable as it is difficult to trace in individuals. No less obscure is the history of their amalgamation. In spite of transitional forms, showing mixture elsewhere, quite enough of the pure breed has continued to exist on either side.

Malagasy of Negroid type. (From a photograph in Pruner Bey's Collection.)

The Malay element has apparently been preserved in its purest form among the most powerful people of Madagascar, the Hovas.[1] They are not tall, but fairly well built, active and lively, tough rather than strong. Their colour is a yellowish olive, many being fairer than the average of southern Europeans; the lower part of the face slightly retreating; hair black, stiff or curly; eyes chestnut brown. The Malayan features, however, are to be found not only among the Hovas; indeed, owing to their wars and their wide extension all over the island they no longer display the type so clearly as some of the tribes which have remained settled near the coast. Sibree found among the Betsimisarakas persons lighter than the Hovas. Nor must the women be forgotten. Many light-complexioned Hova women are, in contrast to the men, of remarkable beauty. Owing also to their intellectual superiority, they have for a long time taken a leading place in the history of the island. Since the arrival of Europeans, mulattoes, whether from the island itself or Bourbon and Mauritius, have also played their part, more especially in connection with the European acquisition of property, and in the two Sakalava kingdoms to the west. More recent observers are inclined to attribute the Hova supremacy to a strong infusion of white blood.

[1] The French call the Hovas "Malgaches," and all the other inhabitants of the island "Sakalaves."

In former times a race of dwarfs was reported to exist on the island. Some consider these fabulous; others hold that they have become extinct. Ellis has endeavoured to connect with the Wazimba the stories told by De Commerson (1771) and others about the Quimos, a people said to be smaller than the Hovas, light-coloured, and active. Tradition records them to have been the builders of those great dolmen-like stone sepulchres which are numerous in the interior.

We cannot state with any certainty all the foreign elements in the population; but there can be no doubt of their importance, especially in the economic life. First appear the energetic, reckless Arabs and Swahilis; then the more peaceful but at the same time more astute Indians. Swahili settlements may be found on almost every favourable point of the coast; nearly all the trade is in the hands of Indians. There are some few traces of even more distant visitors. Edrisi speaks of trade with China as existing in his day; and this has been newly revived by pig-tailed immigrants.

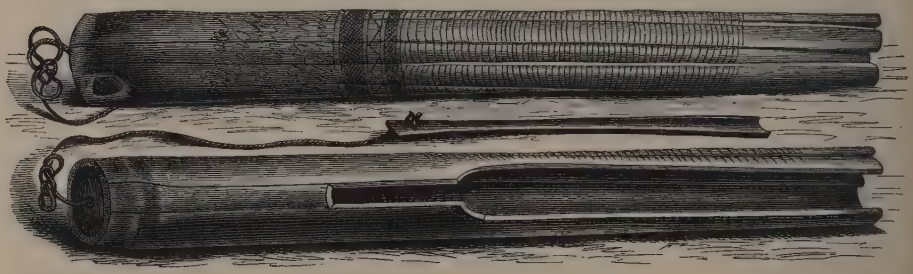
Malagasy of Negroid type. (Same source.)

We know nothing as to the number of the Arabs in the island, but it is certainly considerable. Tradition refers whole tribes to an Arab origin, and we find early evidence of a knowledge of Madagascar in Arabian writers. The Arabic alphabet is used in the south of Madagascar, and Arabic books are found on the east coast; while in the north, under English influence, the Hovas have introduced English letters. Christianity has in some parts degraded Arabic to the position of a magic language, and amulets are worn with Arabic inscriptions, now quite unintelligible. But how came Islam, which has carried out its propaganda with so much success in East Africa, to remain confined to the coast in Madagascar? The Hovas, who are the born foes of the coast population, embraced Christianity very rapidly, seeing in it above all the antagonist of Islam. Formerly perhaps it was otherwise, for Cameron has collected Hova customs having a strong affinity with the Jewish; and these may perhaps even more probably be an inheritance from the Arabs.

As to the arrangement of the various elements or layers in point of date, we know that in a history of Madagascar published in 1874 at Antananarivo a list was given of thirty-six Hova chiefs and kings. This would correspond at most to a period of eight hundred years. Philologists, however, put the Malay immigration, on account of the ancient forms preserved in the Malagasy dialects, before the date of its extension over Polynesia. Besides Arabic and Swahili, only Malay dialects

are spoken throughout the island ; and these are so much alike that all Malagasies can, even if with some difficulty, understand each other.

No one has hitherto seriously doubted the essentially Malay nature of the Malagasy dialects, above all, of the Hova. But attempts have been made to diminish its importance, by regarding the Malay admixture as casual fragments, a kind of flotsam, as it were. At all events, the Malagasy has drawn not only on the Malay language ; its affinities were at least as strong with the Polynesian. Cousin regards it as an older independent offshoot from the same family of languages as that of which Malay and Polynesian are younger members. The successive appearance of African and South Asiatic elements in the population is an assured fact, resting more on physical than on linguistic evidence. If we demand ethnographic proofs we have the existence of an essentially East African breed of cattle. On the other hand, agriculture, with its cultivation of rice, taro, and the sugar-cane, inclines more to Southern Asia. The latter is more strongly



Sakalava musical instrument—one-third real size. (Berlin Museum.)

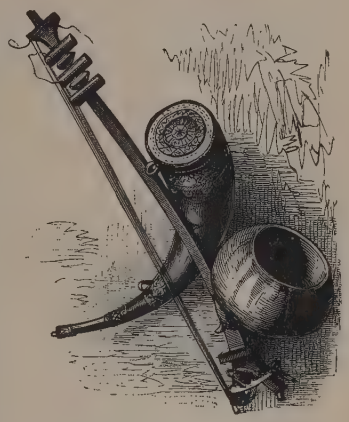
represented in the east, among the Hovas ; the former in the west among the Sakalavas. The universal employment of rafia fabrics for clothing hardly explains the very small use made of skins, of which the cattle-breeding tribes of Africa are so fond ; bark is used here as freely as in Central Africa and Melanesia. Among weapons we do not find the Central African missile knife, nor the African bow. For smelting iron the Malagasy use the spring-bellows found among the Malays. *Fadi* suggests reminiscences of the Malayan and Polynesian taboo, but is not pushed to such extremes. Political life was, until the rise (with European help) of the Hovas, the great power in Madagascar, modelled on African lines ; but the religious ideas are more akin to those of Southern Asia. Thus the general impression produced by the ethnological facts tallies with that derived from language ; we have a Malay-African mixture in which the Malay and Polynesian element predominates.

The first inhabitants were Africans. Then came Malays and other peoples from the eastern and northern shores of the Indian Ocean, and gradually mingled with the earlier comers. The Hovas and their kindred are shown by their relative purity of race to have come later. It is no less certain that more than one Malay immigration took place than that it was not a casual arrival. There must have been a long-continued influx, and the Malays must have had an intimate intercourse, perhaps connected with the old Malay civilization in further India and the Archipelago, with the countries to the west of the Indian Ocean.

Malay traces in Africa show that these Orientals were not stopped by the Mozambique Channel.

The modern conditions of seafaring in East Africa are, in the view of some ethnographers, opposed to the idea of a voluntary migration over sea. But seamanship and nautical capacity are no permanent possession, as we may learn from many instances in Polynesia and the Asiatic home of the Malays. There is no need to assume, as some have done, that at the date of this immigration there were many more volcanic islets in the Mozambique Channel, to serve as stepping-stones. Energetic Africans may easily have found their way across; nor indeed have they ever lacked courage in those parts. How the cows were got over is still a puzzle; here is involved a point in the art of sea-travel which we find indeed was known to the Arabs, but hardly among the races now more immediately under consideration.

The population of Madagascar is estimated at three to four millions; it is certainly fifteen or twenty times less than by European standards it should be. The Hovas are reckoned at 750,000 to 1,200,000. Imerina, on the interior table-land, and some parts of the provinces of Betsileo and Bara are the most densely inhabited. In forming a judgment of the character of the people, we must not overlook race-differences. The Hova, like all Malays, is undoubtedly calculating rather than straightforward, pliant rather than strong. Both his faults and his virtues have their origin in a kind of softness, which leads him to welcome European influences, and even Christianity, warmly, but does not allow him to keep a firm hold upon the benefits which they offer. When decision is required he avoids giving a definite answer, prevaricates, and always keeps a door of retreat open. His greed and insatiable cupidity are yet not adequate to the foundation of a vigorous economic life. Immoderate use of spirituous drinks has become historical in Madagascar; a king of good dispositions lost his throne by reason of it. Political revenge, assassination, and poisoning are common. The Hova has a strong sense, scarcely justified by his general position, of his own superiority to the other races of the island, who are for the moment in subjection to him. Their love of home, which nothing will break, is of political importance; they always dislike going abroad, and are glad to return.



Hova guitar and powder-horn. (Dresden Museum.)

The Malagasies are passionately fond of music, and the king and nobles always keep their bards close at hand. The instruments are eminently Malayan in character. The *Antsiva* or shell-trumpet of the Malays and Polynesians is regarded as very important. A great sea-shell, with a hoarse note, which only kings may legally use, serves to call the soldiers to arms. No religious ceremony takes place without dances, songs, or firing of guns. Great political revolutions, which ferment silently among the people, are often first announced by a mania for dancing, said to be demonic possession, which finds its victims in all classes. Dancing and singing are also used as cures for illness.

There are indications showing that before the arrival of Europeans the year consisted of twelve months, each of twenty-eight days. Another twenty-eight days were so distributed among the months as to make every new year begin with a new moon. The Hova names for the months are Arabic; but the coast-tribes form names from words of their own. Navigation was so rare that we hear little of observations of the stars either for orientation or measurement of time. The planting of rice and other important affairs were regulated by the setting of the sun at a fixed point of the horizon.

Malagasy necklace of carved horn. (Missionary Society's Museum.)

The original Malagasy costume, worn by Hovas and Sakalavas alike, consisted of a loin-cloth, reaching in the case of men to the knees, in women to the feet. This has unfortunately been driven out by European dress, which the Hovas were actually the earliest to adopt. The woolly-haired tribes for the most part dress their hair in puffs; the Hovas wear it short or parted in the middle, and on their heads broad-brimmed straw hats. The most favourite ornaments are arm or finger-rings of brass or silver—the arm-rings more especially on the west coast, where Arab fashions prevail. Nose-rings in the Indian style are also found. Among the Sakalavas, though the men are not tattooed, the women mark themselves with a thorn or a needle on their upper arms, where the outlines of crosses, stars, or serpentine figures may often be seen. The Hovas are not tattooed, but among the Betsileos the women tattoo neck and bosom. Among the Sakalavas of the west coast the barbaric Indian ear-lobe plugs may be seen. Some of the forest tribes of the interior have a way of staining their teeth black with a paste called by Sibree *laingo*; they are said to stain alternate teeth, leaving the others white.

The dominant position of the Hovas having been won easily by the use of European weapons, other tribes have had to follow suit, and fire-arms are almost universal. Even among the more remote tribes the warriors carry a gun with their two javelins. Yet even in Antananarivo one may often see spears, battle-axes, short daggers, and wooden shields covered with buffalo hide; though only the wilder tribes are said still to possess any dexterity in handling the spear. Besides the bow the Malayan blow-gun, 6 to 10 feet long, is also found; the arrows used with it are splinters of bamboo or reed, about 20 inches in length, padded at the hinder end with the silky fibres from the seed of an asclepiad plant, or with feathers, in order, by preventing windage, to increase the initial speed and steady the missile in its flight.

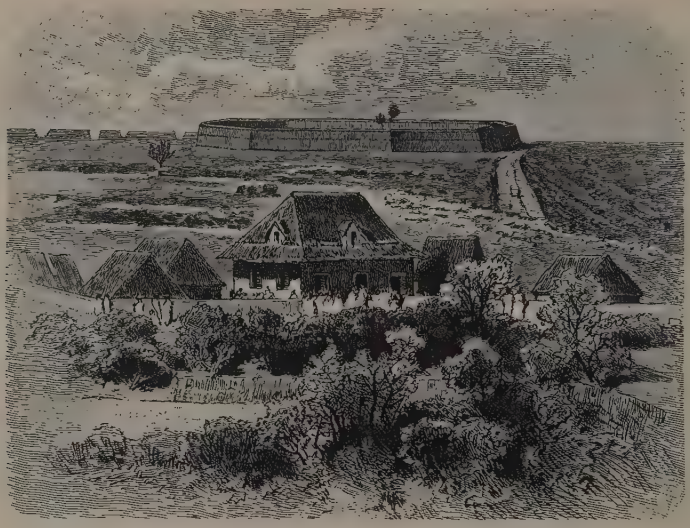
All Malagasy houses are built on a very similar ground-plan ; an evidence for the similarity of the races from an ethnographical point of view. Clay, which in this granitic island occurs abundantly, is built up in layers about 20 inches high of rather less thickness. In this way are formed walls, which, to the surprise of Europeans, are capable of defying the heaviest rain for many years. The roof does not rest on the walls but on three posts. It is steep and high, and is thatched with reeds or rushes. Only the wealthiest people in Antananarivo have roofs of painted shingles or earthen tiles. At the gable the roof-spars cross ; their ends are notched and often terminate with some little carved work, such as a pair of ox-horns, or a small bird, in which we may probably see a reminiscence of the

House of a Hova chief. (From the *Globus.*)

tribal token. The height of the spars indicates the owner's rank. The house has at least one door and one window ; the doors open as a rule to the westward, and are placed about a foot and a half from the ground, so that you reach the threshold by a couple of stone steps. The eastern or north-eastern side of the house is sacred ; here stands the ancestral image or the cross. In building, the north-east corner-post is erected with solemn ceremonies. This is the regular Hova type, of which the construction of the capital offers magnificent examples. In the royal buildings—enormous huts with sharp roofs—every floor is surrounded with a verandah supported on mighty tree-stems. The town rises in terraces ; the narrow roads are steep and bad, and the houses do not stand in rows, but are placed anyhow. Some open spaces are used as market-places. In the Sakalava villages the houses are small, irregularly scattered about under the shade of large trees, and covered with foliage. They also are rectangular, and usually raised from three to six feet on piles. All villages and many single houses are enclosed with high walls of reeds or mud. Some have seen in this a Mahommedan custom ; but it probably is a relic of the times when every little

Hova tribe was at war with its neighbour, and on every hill there was a village with three lines of entrenchments round it. When a strong government had put an end to this reign of club-law, the people came down into the plains; though there are still plenty of fortified villages in the Hova country. At an earlier period, generally referred to the latter half of the eighteenth century, masonry was better executed among the Malagasies than it is at present, so that unlike so many parts of Africa, the country possesses ruins and traditions.

No tribe lives entirely without agriculture. As with the Negroes of East Africa, almost the only implement is a light hoe. The fields often lie far from the village in the valley-openings or on the level ground by the streams, and



Fenced farm-houses in Imerina, Madagascar. (After Ellis.)

their position often changes. The people have little thought for the future, and sacrifice their woods recklessly so as to get fresh land and the manure of the ashes; there is no replanting. Thus nearly the entire Hova country is now bare of wood and overgrown with grass; only here and there some venerable giant rises aloft as an evidence of bygone grandeur. Indian, Arabian, and European influence have brought the cultivation of rice and sugar-cane to this altitude. In the east and the interior rice is the staple food, while in the west the inhabitants live more on maize, cassava, and various roots. Even in the last century the exportation of rice was considerable. The irrigation of the rice fields is in many cases artificial; the treading down of the soil is performed by the cattle. For reaping, a sickle resembling a slightly curved serrated knife is used. The ears are then thrashed out on a stone and winnowed. Sugar-cane is widely cultivated in the Hova country. It is crushed between cylinders of hard wood, and the juice allowed to flow into a trough. From this an intoxicating drink known as *toakka* is distilled. The sugar, imperfectly crystallised, is sold in the market of the country. Many fruit-trees have been imported, such as peaches, oranges, lemons. The vine is grown in the highlands, and hemp and

tobacco are cultivated as luxuries. Tobacco is seldom smoked, and then only in water-pipes of the African kind, made of gourds grown into the shape of cow-horns, and clay—nor ever taken in snuff, but chewed with avidity in the form of powder.

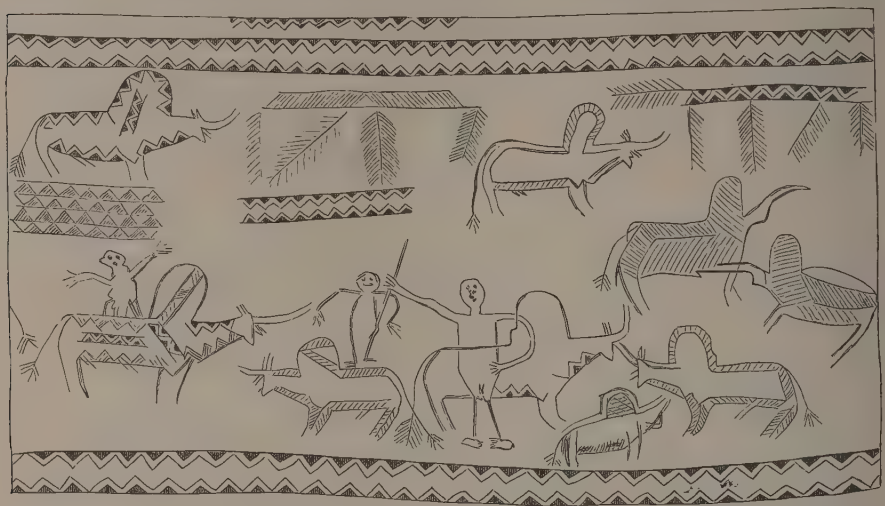
Rice-mortar and paddle from Madagascar. (Stockholm Ethnographical Collection.)

Cattle are currency. A bride is paid for in oxen, and no solemnity is complete without the sacrifice of an ox. The Malagasy scarcely ever eats meat except on festive occasions; and to eat calves is entirely repugnant to the feeling of the country, which forbids the offspring to be taken from the mother. Cattle and rice form the chief source of revenue; Mauritius, Réunion, even Zanzibar and places on the East African coast, supply themselves with these chiefly from Madagascar. All money is invested in cattle, and the greatest ambition of a poor man is to acquire at least two or three beasts. In the highlands milk is a chief article of food, and the rich Hovas have dairy-farms with five to eight hundred head of cattle on them. Some beasts are also stall-fed, in stalls half underground. Although cattle are placed under the protection of the public, and among the independent tribes to steal them is a capital offence, cattle-lifting is frequent. The Malagasy ox resembles the East African. Sheep and goats are found only in the interior; pigs, which are now universal, were first introduced by the English under Radama I. Fowls are not found in every village; geese, ducks, and turkeys exist only among the Hovas. Dogs are either of the East African jackal-like breed or European mongrels Cats are held by all Malagasies to be animals of evil omen.

Madagascar hubble-bubble, in the African style—one-fifth real size. (Berlin Museum.)

The full development of labour among the free population is checked by the existence of slavery. Where there is occasion for operations on a large scale, as in the rice districts in the north of the Sakalava country, slaves are kept. Anything like industrial activity (with the exception of the preparation and working

of iron, in parts where the raw material is plentiful), is confined to the women. The Hovas like to imitate European patterns, but have little faculty of original invention. Among that part of the population with which foreigners come little



Drawing of a herd of cattle, on the bamboo drinking-cup represented on opposite page. (Berlin Museum.)

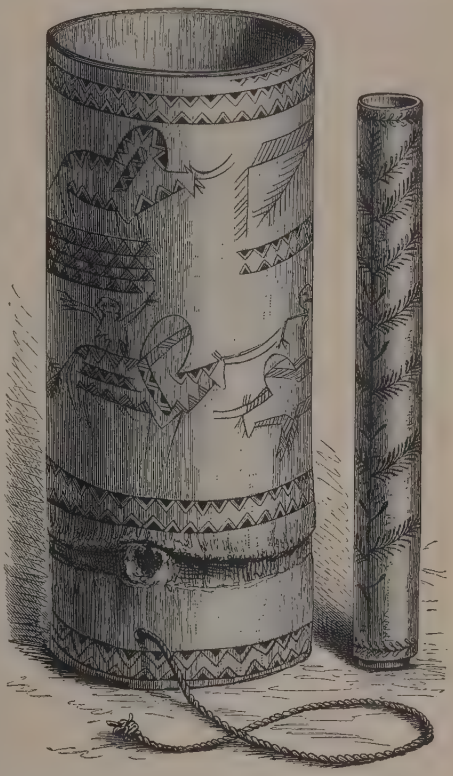
into contact the women's favourite occupation is the weaving *rafia*-fibre into *lambas*. You may see the looms set up day after day under great sheds ; and

Woven pouch from Madagascar—one-half real size. (Berlin Museum.)

the completion of a single piece of this durable fabric often takes a month. The larger vessels of clay, especially the water-pots, of which one or two stand in fixed places in every hut, resemble those of East Africa in their form and method of burning, while the pots with covers used for cooking rice are Malayan style. The dishes and bottles of fine red clay remind one of Moorish pottery. The

platting of mats, baskets, and bags, sometimes roughly shaped like animals, sometimes bottle-shaped, is the women's work. The pattern of the corn-baskets and mats, square and slightly bent up at the corners, is very pretty. The rush-baskets of Madagascar hold water, and keep it cool by evaporation.

Owing to the bad state of the roads and the insecurity of communications, the internal trade is insignificant; and even although foreign trade has gradually become of the first importance to the Hova kingdom, all matters connected with business are in a wretched state. High import duties, from which the Hovas defray the greater part of their state-expenditure, are a burden on trade; though they have their use, since brandy is one of the articles subject to them.



Hova drinking-cups of bamboo, used also for tobacco-boxes—one-half real size. (Berlin Museum.)

Christianity in Madagascar had to make terms with polygamy, which was fostered by the raids of the Hovas. These have long ceased to be successful, and polygamy has been officially suppressed. The first wife is everywhere the mistress of the house, and her children take precedence. The huts of the separate *Vadikely*, or bye-wives, lie grouped round the larger hut of the husband, who lives in this with his head-wife, or *Vadi-be*. She is seldom the prettiest of the wives, but is sure to be the richest and most equal in rank to the husband. Betrothal and marriage customs remind us of those in force among the Malays. Traces of wife-purchase appear in the custom of not holding a marriage to be concluded until the bride's parents have received a present from the bridegroom. In former times this used to be a rump of beef. In general, the woman's position is not unduly inferior to that of the man. Great liberty is allowed to unmarried women. The heathen tribes like to see a young wife bring pre-nuptial children with her. In the morality of the half-civilized Christian Hovas hypocrisy plays an important part; semi-cultivation has had a detrimental effect here in all directions, accompanied as it has been by a diminution in thrift and an excessive indulgence in spirituous drinks.

Among the most notable indications of Malayan affinities are exogamy and mother-right. Preference of the female line in inheritance, equivalence in the degree of kindred of father and father's brother, mother and mother's sister, and the fact that marriage between cousins is *fadi*, or forbidden, to the fifth degree, are peculiarities quite diverse from African usage. Even the prominent share taken by women in

politics is primarily due to the great importance attached to direct descent in blood. The custom by which the first minister is the queen's consort, has fortified their position until three successive female reigns have gone far to give the Hova constitution the appearance of a gynecocracy. Regard for posterity, especially male posterity, has not succeeded in eradicating the horrible practice of infanticide. The greatest respect is shown to parents by their children, very much owing to the honour paid to age as such. For instance, if two slaves of different ages have

Antananarivo, the Hova capital. (From a photograph.)

a load to carry, the younger will, if possible, take it all. Blood brotherhood, contracted over a slaughtered ox, recalls an African custom.

Society among the Hovas falls under three classes; the nobles (*Andrian*), the citizens (*Hova*), and the slaves (*Andevo* or *Ampory*). The nobility consists mostly of descendants of former chiefs. It is the most distinguished class, but not the richest; you may even hear people say "poor as a lord." The government is free to employ all subjects as it pleases; service is claimed from rich and poor, young and old. Services rendered to the government are accordingly, as might be expected, gratuitous; and thence follows important results on the power of the government, as well as the fact that the ministers are the chief traders in the country. In this *corvée*-system too, we may find a reason for the backward condition of the people, seeing that it is just those of most ability who lose most of the

pleasure of enjoying the fruits of their own work. By the introduction of wage-paid labour the Europeans have acted beneficially on the social and economic condition of the Hovas. An official nobility, ranking between the citizens and the nobles by birth, has since the days of Radama I. been created by the bestowal of honours upon servants of the state. The freemen are divided into numerous clans, which, as a rule, do not intermarry. They fall also into the two classes of persons liable to military service, and simple citizens.

Of slaves three kinds are distinguished; *Tsatsa-Hova*, *Andevo*, and *Mozambik*. The first are of the same blood as the Hovas, but have been reduced to slavery

Rainitnalavona and Rainilaiarivona, two Prime Ministers of Radama II. (After Ellis.)

as a punishment for crimes committed by themselves, their fathers, or their brothers. The *Andevo*, who form the most numerous class, are recruited chiefly from prisoners of war; they are slaves in the strictest sense. As a rule they are rather darker than the Hovas; but in other respects their appearance varies very much, as might be expected from their various origin. The third class are Africans, imported by Arabs mostly from the Mozambique coast. Since 1877 the slaves have been nominally free in all parts of the island over which the Hova power extends. The slaves hold a somewhat lower position than other members of the family; but may, by the goodwill of their masters, lead an existence which many a free man would envy. Thus the worst side of slavery is the bad influence which it exercises over labour in general; people have got used to letting the smallest jobs be done by slaves.

The Constitutions of Madagascar were originally of a very elementary nature.

The powerlessness of so-called "kings" often presented a comical contrast to the pretensions which interested Europeans tried to force upon them. But though the Hovas have raised themselves above this low political level, we must not overestimate their achievements as founders of an empire. Large as their empire is, it rests upon a force of widely-scattered garrisons and civil officials, so that its very size is unfavourable to cohesion. The whole north and west, save for a few trading-centres on the coast, is still independent; the south and south-east not much less so. In order to understand the effects from an ethnographic point of view of the extension of the Hova conquest, we must consider how long the struggle lasted, and with what energy and cruelty it was conducted. The only thing aimed at was to injure their opponents, and for this all means were thought allowable. If we further remember their custom of exporting as slaves all the able-bodied members of the defeated side, and, as already mentioned, the wide distribution of garrisons and officials, what else could we expect as the result of their "forward" policy than a general patchwork of the population? But in this fermenting mass the Hova is the leaven; though outside of the narrow limits of his original territory, even he regards himself as a foreigner.

Except the Hovas and the Betsileos, who must be treated as practically identical, and who form the nucleus of the Hova kingdom in the interior, the races of the west coast are comprised under the name of the most powerful among them as the Betsimisaraka. These with the Betanimenas inland, and the Tanalas, Tankays, and Sihanakas, who inhabit the forest-belt between the coast and the interior, are like the Hovas; while, to north and south, the Taimoro, Taifasy, Taisaka, Tanosy, and Tandroy tribes have a darker skin and less stiff hair. Even among the Betsimisarakas we find persons with dark skin and curly hair. At one time the Sakalavas, reaching north and south on the west side, were limited only on the south by the kingdom of Menabe, and on the north by Imboina, founded some two hundred years ago by Sakalava chiefs. Thence they held the Hovas in subjection; now it is they who are (for the most part nominally) subject to the Hovas.

The Hova monarchy is by no means unlimited; least of all is the Hova sovereign absolute. He is surrounded by a high nobility, to which belong the members of the royal house and the descendants of old families; and from which are chosen the prince's companions and ministers. This body often acts as representative of the people and organ of the popular will. Possibly in this respect intercourse with Europeans has acted imperceptibly as an incitement, which among this easily-swayed people would be none the less effective because its origin was unobserved and its effects hard to calculate. If a king rules with a strong hand, and knows how to ingratiate himself with the people, the nobility and the popular assembly become of small consequence; but their strength grows in proportion as the sovereign is weak or unpopular. But he has the means of making his authority thoroughly effective, for the king is not only the source of laws, punishments, and honours; he is also the universal owner. All belongs to him—person, property, time, labour, talent, invention. The administration is carried on even at the present day essentially from the point of view of the king's private interests; hence arise the most senseless extortions and imposts. All minerals, all produce of wood or field which is not got with pick and spade, are crown property, even to the timber. The king can forbid his subjects to leave the island

nder pain of death or penal servitude for life. Offences against the state are unished by the conversion of the right to the man's labour into a right to his erson; that is, the offender becomes the king's slave; and this state-slavery still ctually exists.

Christianity has not left much remaining of the sovereign's status as high riest;[1] indeed the priests appear to rank far below the higher court officials. But remains of the old belief exist among the masses, who regard the king as a reat magician. The people have, as formerly with idols and their bearers, to eep away from everything that has been in contact with the king and his house. When the king is in mourning every Hova shaves his head. The method of aking an oath is akin to an ordeal; the person swearing must sip a magic-drink, hich, when the oath of allegiance is taken, must have stood upon a hump of ead, a box of earth, and a gun-wad. The terrible poison-ordeal, which as *tangena* mong the Hovas and *kizumba* among the Sakalavas has played so destructive a art, is not yet extinct. The pomp of the court is in many respects only an mitation of European fashions, as may be seen in Ellis's picture of the coronation f Radama II.

The laws of the Hovas are promulgated afresh by every king on his accession. hey number at present about sixty. New ordinances are announced in the ublic market-place. For grave crimes various forms of capital punishment, and lavery, are prescribed; the wives, children, slaves, and flocks of the criminal are onfiscated and sold, if not redeemed by his relatives.

The Hovas have become great by the sword, and hold their power thereby. he present dynasty has something military about it, translated into a Malagasy orm. All persons able to bear arms are liable to serve, and the garrisons are ormed of a portion selected at pleasure. These soldiers, like all other servants f the state, receive no pay, so that war is a main object with them; and of all hings they long for a good booty in cattle and young slaves.

§ 21. THE RELIGION OF THE MALAYS

Natural religion or ancestor worship?—Predominance of the latter—So-called fetish images—Animistic belief of the Negritos and proofs of its high antiquity—Complicated doctrine of the soul—Cult of skulls and bones—Veneration of old pots—Tree worship—Veneration of animals—Tiger superstitions—Plurality of spirits good and bad—Visible and invisible spirits—Amulets and relics—The *Gangkan* religion of the Alfurs—Malay theology—Deification of men—Indistinct idea of the supreme being—*Batara guru*—Sivaitic and Buddhist substratum—*Kaloe*—The war god—The spirit of the sea—Sun and moon—Spirit of the earthquake—Mythologic legends—Notions of the next world—The priesthood, magicians, priestesses—Religion and imposture—The places of worship.

RELIGIOUS veneration of ancestors and a lively faith in higher spirits, as well as countless number of a lower class, added to magic of many kinds and uperstition in many forms, form the kernel of the oldest religious ideas mong the Malays. Natural curiosities do not escape the notice of the

[1] [That some traces of it remain appears in a letter from a missionary's wife, published in the *Daily News* f 4th December 1894, just before the last French invasion, where the writer mentions that "last Sunday orning, at the Palace Church, the Queen herself got up and addressed those assembled—her courtiers, oldiers, etc.—and led them in earnest prayer."]

Malay, but his observations only serve to people Nature with spirits proceeding from his animistic cult, and to procure amulets or fetishes in objects arousing veneration or fear. Every object found in a place where it would not have been expected becomes an amulet; the hunter prays to a stone in the road, "Help me to catch pheasants to-day," and if his prayer is heard the stone becomes a fetish to him and all his village. Any stone or object like a stone which is found in the entrails of fish, birds, buffaloes, or men, any resinous growth on a tree, any shell or root, in short, anything striking or peculiar, is made into a fetish. The demand ever new, ever active, sharpens the eye, nor are portable objects only considered; mountains become dragons, and monsters solitary rocks, and all mountain-tops are the places where spirits dwell; in the craters of volcanoes the penalties of hell are carried out. We are told that in Celebes mountain heights formerly used for human sacrifices are specially esteemed. Forests are regarded as the seats of evil spirits; when a clearing is made the last tree is left standing. In reaping, a patch of rice which, perhaps, has been sown on purpose, is allowed to remain because it does not do to drive the spirits to extremities. In Celebes terrible tales are in circulation about gigantic serpents which inhabit the peculiarly-shaped summit of Sinalu, while in the north of that island every cave passes as the abode of one spirit in connection with which we may think of the use of caves, mountains, and forests, as a place of burial.

Igorrote ancestral image—one-twelfth real size. (From Dr. Meyer's Collection.)

Races which otherwise have no knowledge of idols erect stone or wooden monuments for the souls of ancestors. Before these clumsy figures oaths are administered and sacred operations performed, while offerings are laid in their navels. The *Pangulu-Balang*, the stone image of the Battaks, has no doubt often long ceased to be an ancestral image so far as its worshippers are conscious, for with the growth of the commune it became the tutelary spirit of the whole *kampong*. Although the soul immediately after death came back and dwelt as tutelary spirit in a place where no one was allowed to sleep according to the view held in Ternate, later on it retires with other souls into the spirit-house; then if the old images leave prayers unfulfilled they can readily be replaced by new ones, though at the same time they are not destroyed. According to the degree of veneration assigned to them, they receive offerings monthly or annually, in the latter case with great ceremonies. It is only on this day that they will answer prayers, for the rest of the year they may be ignored. Graves count universally as holy places, they are avoided since it is unlucky to step on them, and revisited in order that the spirits hovering around may be implored to bring luck. In the whole district of Minnahassa the only objects of a monumental kind are stone coffins with richly sculptured lids.

If we inquire into the origin of the Malay idols or fetishes we usually come upon these ancestral images. The Igorrotes of Northern Luzon make no representation of their gods, but even they draw a couple of roughly designed

uman figures in front of their granaries to represent two famous ancestors, and o them they confide the protection of their rites. In front of many huts in Central Luzon, Hans Meyer saw a little pot with food set out, and often also a ttle bench for the *anitos* to rest on.

Among the Battaks these idols are made of a soft stone, and often exhibit a udely worked head terminating in an irregular pointed base a foot long. If he *Pangulu-Balang* is wanted to be especially powerful the Guru bores a hole in he lower pointed end, fills it with a magic broth which he has concocted out of he entrails and the nose, eyes, lips, and ears of a fallen warrior, and carefully oses it up again ; in this way the *Pangulu-Balang* gets a soul. We may see in his a survival of human sacrifices. These images are found in the houses of Mussulmans no less than among the heathen. Carved sticks with figures of nimals twined round them serve the Battaks as standards in war and for driving way diseases. If you listen closely you will be able to distinguish the humming oice of the soul within the stick.

What little we know about the religion of the Negritos is also referable only o the belief in souls ; they do not like to leave the wild places where the souls of heir forefathers dwell. They betray a great dread of the spot where one of them as died. After they have covered the corpse lightly over and blocked the pproaches to the place of burial, they leave the place and communicate the act to the neighbourhood. Any one who ventures to tread the forbidden spot s punished with death. The Lubus, who are at a similarly low stage, hear the pirit depart at death with a soft hissing noise ; if any one departs without this ound his spirit does not survive him. Among the Philippine tribes ancestral pirits proceed from the souls of grandfathers, and while most *anitos* are harmless, hat of the village chief is dreaded.

The entire complicated psychology of the Malays may perhaps be regarded s produced by a reaction from their ancestor-worship. The tendency to nultiply spirits, which ascribes to the man three or seven souls, partly indwelling, artly external, but in connection with the inner life of the soul, must be based n the need for linking with his soul as many things as possible. When we hear hat wicked souls require their form to be seven times destroyed before they can e at rest, we are in presence of an obvious misunderstanding of the wanderings f souls. People dread the wandering soul of the sleeper no less than the berated soul of the dead ; and to step over a sleeping man, or even to wake im abruptly, passes for a serious injury.

Veneration of skulls, together with head-hunting, has a close connection with ncestor-worship. The treatment of the heads often has at its foundation the dea of acquiring a spirit for the tribe. For this cause the Sea-Dyaks of Brunei, uring months on end, devote special attention to the heads, speaking to them in ndearing terms, and giving them the tit-bits at every meal, besides *sirih*-leaves, etel-nut, and even, according to Veth, cigars. The skulls are painted in red nd white stripes, or blacked with antimony, often, too, covered with tinfoil, and he eyeholes filled with shells. Among some tribes these trophies are the roperty of the whole village. The practice of treasuring the skulls of beasts, specially of those taken in the chase, occurs in company with the cult of uman skulls, among the Mussulmans of Java no less than among the pagans of Formosa. On the Negrito huts of Luzon the lower jaws of pigs may be seen

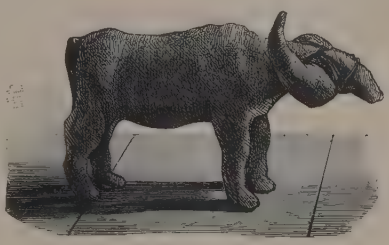
nailed up, and on the outer walls of those of the Igorrotes, the skulls of pigs, buffaloes, and dogs.

All Dyaks are fond of setting up old jars, called *blanga* or *tempajang*, in their houses as the most honoured form of decoration. No doubt they were once reliquaries, and thus esteemed as the abode of a spirit. The custom reminds us of the Buddhist veneration of cups and urns, and of the curious Japanese superstition, of holding in high honour pots which have grown to rocks at the bottom of the sea. The pots and basins in the house of a chief in South-east Borneo were worth at least 15,000 guilders, or £1250; the most costly were buried in the wilderness, in a spot known only to the owner. The vessels —green, blue, or brown—with figures of lizards or snakes, imported from China, are valued at 1000 to 3000 guilders. A new pot is dedicated with dances, and the sacrifice of an animal. In the Timor group the people of Ombai esteem metal vessels highly; the copper *mokkos* being valued up to 1000 guilders, and the differences in value depending on marks known only to the natives. The vessels are somewhat in the shape of a stove, and are used as musical instruments on ceremonial occasions, being beaten by the hand on the firmly fixed lid. Some are pinched in at half their height (which is from one to two feet), and have handles. They consist of several pieces, on which signs and figures are embossed; very old ones with cracks are just those most highly valued. In Kè and other islands, coarse Chinese porcelain cups count as the most precious family possessions, and are found in old graves. Every *blanga* has its pedigree. According to a legend from Banjermassing, Ratu Champa, who came from heaven and descended at Madjapahit in Java, caused these vessels to be made of the clay which remained over from the making of the sun, moon, and stars. From other versions we may conclude that the maker of the sacred vessels is none other than Mahatara, the Almighty. Hence they are propitious for the house where they are kept, and for their possessors; and here is the connection with the sacredness of the earth and of stones. We shall remember the sacred coin-stones of the Melanesians. Also they are protective against illnesses. Pots in which cannibal dishes have been dressed are kept as mementos, and also those which have received the pieces of putrefying corpses. In the Mariannes pots occur as the abodes of departed spirits.

Sacred jar, probably from Borneo—one-sixth real size. (Leyden Museum.)

Tree worship is deeply rooted in the mythology or cosmogony of the

Malays, and therewith a veneration and awe of any tree that is in any way out of the common. On giant trees, or such as have got twined together, or shelter white ants' nests, one is sure to find a little shrine in which offerings are brought to the spirit. Stones are flung at an ill-shapen tree, or rather at its evil spirit. Plants and flowers are brought as offerings; while *Hibiscus rosea* and *Dracæna terminalis* are themselves revered as good spirits, and made of use against evil ones. Roots which good spirits indicate to magicians, afford them power against evil spirits. The *Rirong* palm is planted on graves, and at the corner-posts of newly-built houses. In the paddy-fields offerings are made to the goddess of festivity; and the rice itself is addressed as though it were an animated being. The development is accompanied with usages suggesting pregnancy, and names of flattery are applied to the rice when reaped, that it may keep well, and, if sown, bring forth abundant fruit. In the Sulu Archipelago the *champai*-tree, a kind of *michelia*, sheds its abundant white blooms almost all through the year upon the graves. A special cycle of legends is attached to the *durian*-tree; in some districts of the east it is crown property, and rights of possession are expressed by the planting of it. Among the Negritos of Luzon a fabulous beast, with a horse's head, which lives in trees, is venerated under the name of Balendik, as a being of a higher order. The casuarina-tree (*chemara*), supports very various superstitions. In Java it is a bad sign if a *chemara*-tree grows very well in the neighbourhood of a house; but if the tree dies without any external cause, the family will be fortunate.



Wax figure of buffalo; perhaps an amulet of the Guinans —one-half real size. (From Dr. Meyer's Collection.)

Animals play a conspicuous part in Malay superstitions; they are closely linked to the world of men through the belief in the transmission, by way of exchange, of human souls into beasts. Men and women who have not the little furrow below the nose in the upper lip are regarded as being qualified for transformation into tigers. Metamorphoses into vampires and pigs are also dreaded. It is difficult to get at tigers who have human souls; they do not like hunting the tiger, who is spoken of as "grandfather" or the "old gentleman," so long as he leaves the property of his worshippers in peace. Many villages in Japan possess a village tiger, the *matjan kampong*, who is fed on the offal of slaughtered beasts, keeps the premises clean, and is identified with some deceased person. But if he lets himself be caught attacking the village cattle or even killing an inhabitant, he is hunted, and all the more pitilessly that a weapon dipped in his blood becomes a valuable talisman. Crocodiles are treated similarly. Malay princes trace their descent from them, and in Banca they are even held equal to the princes in rank. For this reason, no doubt, the figure of a crocodile is commonly found on Malay shields, in Talaut even in the shape of the shields. The cases are frequent in which the soul, as a penalty for sins committed in life, is separated from the body which rests in the grave, an exile for a time in an animal. Here, again, the creations of Indian fancy have got a footing. There is a creature called *bujutronkeh* which is a tiger in front, a roe behind; the tiger when he looks round

sees the roe, and in tearing it tears his own body. A man who has in life acquired property unjustly appears in this form. A man who has become rich by magical means, after death takes the shape of a white cat. Covetous men and usurers also are compelled to hunt in the form of pattering animals. There are lucky and unlucky animals, the voices of which encourage or hinder. The Tagals ascribe to an unknown bird, called *tik-tik*, the habit of calling the attention of evil spirits to parturient women, who are specially exposed to their attacks.

Beast superstitions take countless forms. In Nias pregnant women must not pass by places where a man has been murdered, a bullock killed, or a dog burnt with imprecations, or some traces of the dying man or beast will be found in the child. For the same reason, and others also, the Malays never stick a pig nor cut it up if somebody else has not made a preliminary cut, nor will they kill a fowl, and if they have trodden on a chicken and killed it, the *faux pas* must be compensated for by sacrifices. They will not eat the eagle owl or the child will have a voice like that bird. They will not take hold of a monkey or it will have eyes and forehead like a monkey; they will not eat of a pig that has been killed at a funeral or it gets the itch. They will not eat the beetle of the *era* wood or the child will be delicate in the chest, nor will they catch a *baiwa* fish or kill a snake lest it should have weak digestion. They will not set fire to a field—rats and mice might be burnt and the child made ill; and for a similar reason they will not put salt in the pig's food. A fine complication this! As amulets, both for enchantment and against it, teeth, claws—especially tiger claws, and the tarsal bones are popular. In Java, fabulous stories are related about a monkey with a human face that lives in the forests to the eastward; any one who catches him will be fortunate. From the shape of a pig's or fowl's liver it is sought to ascertain how long one is going to live. The Negritos of Luzon make prayers to a large serpent for good places to get yam and honey, and the Pampangos have snake enchanters after the Indian fashion.

Our limited knowledge of the Malayan spirit-world does not allow us to progress very far towards a classification of the countless spirits. In Halmahera, a prince of spirits is Gwusuong or Pwusuong, the lord of all the Jinn, who dwells unapproachable by men in Waurao; in Ternate, the greatest of the Wongis, Jo-Durian. It is, however, not certain whether the same gradation is everywhere in force as among the Battaks, where the great spirits or *Sombaons* join on to the gods. These have nothing whatever to do with the souls of the departed, they are nature spirits with a limited circle of operations; spirits of the mountain, forest, and sea. Wherever Mussulman influence reaches, the notion of Jinn has covered all degrees and kinds of spirits; it is the fact that these races treat their spirits very differently. The Battak thinks that he can settle with the inferior crowd merely by dint of incantations and magic formulæ. But since these spirits are by far the most numerous, magic and incantations flourish to a high degree and serve to maintain an exclusive caste of *gurus*, the master wizards and witch-doctors.

The multiplicity of spirits gives individual romances to religion, according as one or another spirit power comes to the front. The roots of these conceptions are, however, few, the multiplicity lies not in the system but in a development of the two or three fundamental ideas. But of these the higher are not accessible to the mass of the people, who look upon the spirits whereon their hopes or fears are

based not as at a supra-sensual height but in a confidential proximity. Good and evil spirits are regarded by the Malay as belonging to his own circle of existence, since he recognises in their activity no extraordinary intrusion of a foreign world into his own.

If we are to classify the spirits according to their operations, the *Sanggiang* of the Dyaks, the *Yang* of the Javanese, the *Wong* of the Moluccas are to be noticed as good spirits in so far as they either do good themselves or can be moved by sacrifices to oppose evil spirits. To this class belong all tutelary spirits in amulets and sacred trinkets. In Java every paddy-field possesses its spirit, nor will any man readily venture to sow or reap before a priest has offered gifts. Fortunately, it is not a very difficult task to obtain a tutelary spirit. If a man has reason to suspect a *bagan* in anything, he brings it to the *guru*, who goes with it to the

Talisman from North Borneo and ancestral image from Nias. (Dresden Museum.)

sacred place of the village where the *Pangulu-balang* stands, takes a sufficient meal, and allows the spirit to enter into the object. There is also an enchantment juice which, when dropped into the eyes, causes spirits to be seen; lemon juice with ginger and pepper is an important component of it.

While the mass of souls become good spirits, those of the unburied, or of persons who have died abroad or by a violent death, turn to evil spirits. These get the best offerings, even the harvest thank-offering serves to propitiate evil spirits. They are much more sharply individualised than the good ones; the inhabitants of Java recognise an evil spirit of the wilderness whom they call *aul*. Another one of a strange deluding exterior is the *bilun-samak*, a water spirit who floats on the surface like a large leaf or a woven mat, and drags his victims below. *Mentak*, on the other hand, goes through the paddy-fields in the innocent form of a little child to bring disease upon the plants. Where a woman is awaiting her time the houses are carefully shielded against Kuntianak or Puntianak, a being of horribly distorted appearance, fires being kindled and sentinels with burning torches posted. In the eastern islands the greater number of evil spirits seem to be

embraced under the notion of forest spirits, perhaps in contrast to the good ancestral spirits who live about the villages. Evil spirits shun the light, and for that reason arrows armed with wax tapers are shot upon their altars. To consecrated water, healing properties rather than purifying are ascribed; ill luck attaches both to things and to men and must be exorcised by a change at least in externals. For this cause it does not do to build into a new house material from one that has been destroyed. Fancy, in its search for support, fixes upon a thousand trivialities; it holds a mirror before a conflagration that it may be terrified at the sight of itself. When rain falls and stops suddenly a murder has been committed. With unlucky men it is often not enough to change the name, they must transfix a banana stem and cause all the ceremonials of a funeral to be performed with it in their place; then, and not till then, they can put their ill-luck underground. A great part of Malayan festival rites have the propitiation of evil spirits for their aim, the healing of the sick is the expulsion of an evil spirit, and on a journey from the Tobah plateau to the lowlands of the coast, which teem with fever, offerings are made to the spirit of the ague. In the permanent places of sacrifice to the evil spirits, food is set out as in the shrines of the souls, and the ghosts are fumigated away by children with onions or sulphur.

The countless portents of death point to a life passed in a state of fear; to these belong, among the Dyaks, the sight or the cry of an owl, snakes coming into the house, the falling of a tree in front of any one, a singing in the left ear, but most especially an abrupt change of mood.

Invisible spirits fill up the gaps which intervene in the substances of visible things. To them belongs in Javanese superstition the great race of the *Jurigs*; when the other spirits have left a spot unoccupied you may be certain of finding *Jurigs*. They become visible only occasionally as tigers or fiery serpents, actually they are evil spirits. A milder form is found in the *Ganderuwa* and *Veves*, who are equally indigenous to Java; mischievous cobolds, male and female, who torment men invisibly, most commonly by throwing stones, but also by bespattering their clothes with saliva dyed red by betel-chewing. Resembling both these the *Begus* are conspicuous among the Battaks, all the more that their spirit world is otherwise completely embodied. They are like a breath or bodiless air, to them belong the invisible spirits of disease, the only visible *Begu* is the dreaded *Nalalain*, the spirit of strife and murder, who may be seen creeping about in the evening with fiery eyes, long red tongue, and claws on his hands. Apparently resembling him is *Swangie*, the most dreaded of the *Burungs* of Halmahera, the evil one who creeps on the earth. The *Begus* even try to take possession of corpses, and the incessant sword-strokes of the *Ulubelang*, or champions who surround the coffin in a funeral procession, are directed against them.

Amulets, through their connection with a political function, acquire a higher religious importance. When possessed by ruling families they become a kind of regalia, and the veneration paid to them increases therewith to an unlimited degree. In Celebes one may hear the title of prince applied to little village chiefs, or to members of families that have long ceased to rule. These people are the possessors of venerated trinkets; in a sacred house of this kind a little basket or casket stands upon a table carefully covered with *sarongs*, and beside it fumigations are burnt and tapers are lighted. Then you will discover on the wall or on the floor weapons and other *bric-a-brac*, and lastly, two or three copper

pots, one with boiled rice, another with *sirih* leaves, and the apparatus necessary for chewing them, but, what is contained in the basket or the casket it will assuredly cause death even to look upon.

In these sacred objects the people take refuge in all dangers and adversities; fowls, goats, buffaloes, are offered to them, they are sprinkled with buffaloes' blood and drawn round in procession; oaths sworn upon them have more value than when taken on the Koran. At the same time their requirements are considerable; when they are taken round, every one who has heard of it must join the train, whoever delays to do so is punished. The penalty goes on the principle of a deodand to the owner of the relic. If the opposition has taken the form of active hostility, the person concerned used in former times to become a slave of the ornament, often with his family and relations. A female slave who invokes its protection becomes its property, the former master loses all rights. Land to which there is no heir falls to the ornament. And what are these trinkets? amulets with the political stamp upon them, or, as we may say, state fetishes. The veneration of them comes down from a time when a number of small independent kingdoms still existed. In many parts of the archipelago the tale recurs of princes who found an article of gold, in Ternate a whet-stone, which, being revered as an amulet, attracted so many visitors that they passed it on until it came into the hand of a poor prince and multiplied the number of his subjects. Thus also, as the tale extended, the first settlement, which contained an amulet that it had brought with it, retained its hegemony and its kingdom increased.

This crude amulet-religion takes on a more refined form in the west under the influence of foreign civilization. Relics, traditional possessions, and texts from the Koran, take the place of roots and stones. The best of all are relics of weapons—especially when they have given some one his death wound, trinkets, precious stones, such as the grey diamonds of Matapura, known as "souls of diamonds," especially when they have formerly served a similar purpose. Old stone axes, so-called "thunder-bolts," are distinguished into male and female, and regarded as having great magic powers. Texts of the Koran written on paper afford protection against spirits and bring good luck; they are rolled up and carried on the head or about the body. Other texts quickly bring wealth or protect the house against evil influences. Little models of houses, often with a serpent in the doorway, pass for "medicine" among the Dyaks, and so, too, wooden figures of crocodiles and other animals.

Magic has assumed a scientific character in the *Ngilmu*, which places in the hand of the adept a weapon of unlimited power. *Ngilmu* is the art of astrology, the art of love philtres, the art of growing rich, and stands towards *rapal* in the position of science to handicraft or theory to practice. In this sense the Javanese are the most science-loving of all people. *Ngilmu* is in general the art of stealing with impunity, but it would be *rapal* if a habitual thief put the inhabitant of a house to sleep by magic. If a *rapal* does no good it is a fraud and is flung away, but the *ngilmu* remains always of value. The name is applied also to Mussulman occult science, the very highest of all is taken from the Koran. The man who can say why the breath is called breath, what it is called by day and by night, at expiration and at inspiration, whither it goes at death and where it remains, has acquired a share of *ngilmu*. The reason why it is only taught to particular trustworthy persons is the fear that if all had learnt it it would give

rise to many misunderstandings. The temples would fall to ruin and the power of the princes would be shaken.

Theology is neither so rich nor so clearly systematised as the doctrine of spirits and ghosts. The three head gods Batara-guru, Gori-pada, and Mangala-bulan, exist for the multitude mainly in theory; the Battaks, for example, dealing in practice only with spirits. They appear in more distinct form only where religion assigns to them functions which transcend those of the spirits, where thought finds itself led in the direction of cosmogonic problems, or where the whole troop of individual ghosts is no longer of any avail. On specially important occasions affecting the whole people there is even capacity for prayer to the highest god, the creator of the universe, such as by its earnestness favourably impressed even the Christian missionaries. The name of the supreme being occurs also in grave oaths. Islam has made very little alteration in this; in the district of Holontalo, for example, the prevailing religion is the Mussulman, but the old heathen usages and customs lie unaltered at its base. Just as formerly the Hindoo religion repressed the native belief in the gods of the house, the field, the forest, ancestor worship, the motherhood of earth and the fatherhood of the sun, so in the later centuries Islam has suppressed the worship of the sacred fig-tree and of the Brahmanical gods and goddesses, yet not without absorbing much of the old customs, so that any attempt would be in vain sharply to distinguish the three layers. The tutelary spirits are frequently called the returned souls of heroes or ancestors, and when we find every village in Timorlaut worshipping its patron spirit in the form of a wooden human figure we are very near to the deifying of men. In some historical cases the process of deification is clearly enough to be recognised. Sir James Brooke freed the Dyaks from the oppression of the Malays, but the Rajah desired nothing for himself in return for the blessings he had conferred. What could move him thereto unless he was something more than an ordinary man? Wallace was pelted in out-of-the-way villages with questions whether Brooke was not as old as the hills, and whether he was not able to call the dead back to life.

The supreme being is so far away from the people that they can hardly assign a name to him. A lower deity, or an imported one, such as the assistant creator, Batara Guru, or wherever Islam has spread, a deity of a Mussulman type, could easily be exalted to the vacant place. The names Lubulangi, Kabiga, and Malyari, applied to their supreme beings by the people of Nias, the Ilamuts, and the Zambals respectively, remain unexplained. Among the Ifugaos of Luzon, Kabigat appears as the son of the supreme deity Kabunian, from whose intermarriage with his sisters mankind sprang. Designations like "the lord on high" are general. Sexlessness is his attribute; and the faithful maintain that his great distance hinders him from hearing prayers. Elsewhere, among the Tagal tribes of Luzon, a goddess comes up as the daughter of the supreme pair of deities, or as the wife of the chief god, in cases where the chief god is represented as married. The Catalangans even recognise two supreme couples. The deity of Halmahera, on the other hand, is spoken of as a single being; he taught laws to the wise Gusongs, who are called his messengers, and they in turn taught their disciples, and straightway vanished. Among the Dyaks there is a supreme god, Tupa, who governs the thunder and lightning in heaven, but is not prayed to; another, Sanggiang Assai, metamorphoses a woman into a white rock.

Batara Guru is prominent in Hindoo-Javanese inscriptions with all the attributes of a god regarded as supreme. This pre-eminence never interrupts the polytheistic basis, but the Devas take a place behind him. Next to him appear as the most important gods, Surya, the sun, and Kalamerta, the god or goddess of fertility and death. His position as the chastising god, the statement that he appears on earth in the devastating storm, that he fights with the fire, bring into prominence his resemblance to the Hindoo Siva; but in the Javanese travesty all his destructive tendencies are whittled down to the point of insignificance. In other evidences of Javanese Hindooism he takes rank behind the distant universal god in the position of an intermediary, in which he completes the creation, assigns their places to the god of the polytheistic crowd, and rules them and the earth. In this position he is ancestor alike of the lower gods and of men. But the Dyaks of South Borneo distinguish Mahadara Sangen—the ancestor of gods—from Mahadara Singsang, the ancestor of men; while among the Orang Benua, the creation, even that of mankind, was all seen to by the supreme lord, who dwells out of sight above the sky. Once on a time he broke the shell wherewith the earth was enclosed, so that the mighty hills, which now hold the fabric together, rose from the depths; on it he placed the first human pair in a *prahu*, which drifted about on the water for a long time. Between Pirman and human beings stand the Jinn—the most powerful of them the earth-spirit, Jinn Boomi who sends sickness. Subordinate to him are the spirits of trees, rivers, hills, etc. More recent researches have brought to light the Sivaitic basis of Batara Guru, and his points of agreement with Buddha, but have at the same time kept firm hold of the fundamental Malayan character declared in his position as creator and maintainer of the world at the head of a few high deities. Imported gods assume a national character even where Indian traces are still pretty clear. Padi Allah and Nabi Mohammed, sprung from Islam, have joined their company.

A goddess appears in Borneo under the names of Kaloë, Kaluë, Kloë, who dwells in the nether world, and at one time protects the harvest, at another is of mischievous significance for pregnant women and new-born children. She has been compared with the Proserpina and Lucina of the ancients. The Javanese serve up offerings of food and drink in the sacrificial shrines to this protectress of the paddy-fields, adding thereto a mirror, a comb, and fragrant oil; since the daughter of the gods has the reputation of being vain. The Igorrotes organise head-hunts to please her. The connection of the feast of purification or atonement, with the harvest-customs, looks as if the powers invoked from below to further the increase are sent back propitiated to the under-world. The god of war, too, is brought into connection with plants. In Halmahera the oldest man repairs into the forest, to a tree in which a hole has been bored, and summons the spirit to mount upon a litter. Here food is offered to him, while the company perform the war-dance. Similarly, in Ceram, before a war a procession fetches "the spirit of the sacred tree" from the forest, and when the war is ended bears him solemnly back. To this, too, Polynesian parallels are not wanting, as a reference to p. 326 will show.

The female spirit of the ocean rises pre-eminent above the ordinary spirits. She rules not only the sea but also far inland the cliffs and the caves, Javanese legend makes her the daughter of a ruler of Padjajaran whom her father cursed because she rejected all suitors. Banished to the south coast of Java and attacked

by a painful disease, she vainly besought the gods for help. Finally she prayed to Siva the annihilator; the evil spirits caught her up, hurled themselves with her into the sea, and the demons at the bottom of the sea elected her their queen. Her favourite place of residence when ashore is a cave on the Oopack River; for her use also mirror, comb, and oil are set out. Her sister is ugly, deaf and dumb, albino, and was carried away by traders from a desert island to which she had been banished. Among the Battaks too there are sea spirits called also *Nagas;* in rank they stand on a level with the highest *sombaions* and are the children of the deity. On the Tobah lake a couple of these *Nagas* are highly revered by all who come there; the male dwells near the shore, the female in a dry stone house at the bottom in the middle of the lake.

The sun and the moon appear as great divinities, the stars as their offspring. When killing an animal the Negritos fling a piece heavenwards crying out at the same time, "This too for thee"; and they sacrifice pigs to the thunder. In Timorlaut the chief deity is transferred into the sun while his female complement resides in the earth. For a lunar eclipse, as the saying goes the serpent has eaten the moon, the temples are decorated and young girls have to lament the dying of the moon while the bystanders laugh and joke; noise is also made to induce the monster to disgorge. In the moon they see a tree which is either a phantom of Allah or a cloudiness brought about by the angel Gabriel. Sun and moon were originally of equal brightness, falling stars are called shots from the bow, the morning star the day's tooth. In the rainbow the Mussulmans see a strip of Satan's mantle, and the Negritos offer prayers to it as to the thunder, while in Ternate it is believed to increase the number of fish.

Earthquakes result either from the shaking of the giant bull on whose horns the earth rests, or from the writhing of *Naga*, the same serpent who causes the eclipses of the moon. Subterranean fire is embodied in evil spirits, from whom a beneficent bird in Ternate called *leo* steals the fire in order to bring it to men, although he singes his wings in so doing.

Mythological elements are copiously represented both in the dynastic legends with which the pre-historic period is filled, and in beast legends also. Swan maidens stand at the foot of the family tree of Ternate; Skarbas, one of seven winged heavenly sisters, was surprised on her way to the bath by a prince and bore him children who afterwards reigned in Ternate, Tidor, and Bachan. In one variation, given by Valentyn, it takes the following form: the kings of Tidor and Bachan were born from dragon's eggs, and for that reason the sultan of Bachan bears the figure of his dragon ancestor. A more commonplace version of the family legend is that in which a princess of Ternate having been wooed by Tidor, but found not to be a maiden and accordingly sent adrift on a raft, became the ancestress of the royal family of Bachan. There is a legend, going still further back, according to which the first prince of Lolada came into existence with the beginning of the first rustling of the wind. He arose from a tree stem which good spirits drove from the shore, and is therefore called "he who came out of the water." The forest-dwelling Bajus believe that the hero son of the realm of Padjajaran will some day take them back again when he has descended from heaven, to which he went up.

After death the souls go into a future world, where there is what is called by the Dyaks "Sabyan," a city of souls; by the Alfurs of the Eastern Islands

"Soroga" or "Sorga," a house of spirits. The first aim of the great funeral feasts is to facilitate the soul's way thither. The soul is not tied to that spirit home, indeed its stay there seems to be limited. Thus the Maanjans say the soul returns again after seven generations. If a woman with child has a longing for a sour fruit, it means that a soul from the next world wishes to enter into her in order to be born again as a man. They believe, further, that a future state is like this world, and a supreme god, Apu, has power over all spirits and exercises unlimited rule in the invisible world. There is a good spirit who is either son of the supreme god or a beautiful woman. To his care all souls are entrusted at the funeral feast, and he escorts them into the next world. The way thither leads over the sea, and therefore coffins are made in boat form, and toy boats are set near to the grave. The sea is also conceived as a sea of fire under which a road goes. To meet the dangers which beset the entry into Paradise a man has weapons given to him, and, if he was a person of distinction, a suite of slaves. Means of bribery must also not be lacking. In the middle of the narrow path stands the great savage dog, Maweang, and woe to him who is not provided with a little *telak* bead. The exaggerated expense of the boisterous funeral processions, by which many families are ruined, are supposed to be of benefit to the dead person, who indeed, among the Dyaks, has already in his lifetime caused the clothing and equipment for his corpse to be prepared from the most costly material; only slaves are buried without singing and noise. The souls of the Igorrotes travel to two places, he who dies of a natural death goes northward to Cadungayan; here the souls dwell in a forest, the trees of which turn to huts at the approach of darkness. They also possess gardens and draw their sustenance from the invisible component parts of animals, from rice, and from the offerings of their relatives. For this reason, also, in North Borneo some sago palms are felled for every person who dies, and the wine which the living drink at the funeral feast serves equally for his refreshment. The man who commits robbery and murder without reason is punished there if he has died without undergoing a penalty, and punished too by being pierced with a lance by another soul. But the souls of all those who have lost their lives by a spear wound or in any other violent manner, as well as women who have died in child-birth, arrive at a more desirable place, the residence of the gods. The Malagasies hold that their souls go into the air or on to the mountain, Ambongdrombe in the Betsileo country, which excites fear with its cloud-wrapped summit and the roaring of the storms. In their language we find echoes of a better hereafter; dead people are said to have gone to rest, among the Hovas indeed to have become divine.

Rosary with amulet from Madagascar - one-half real size. (Berlin Museum.)

The amalgamation of Indian, Chinese, and Mussulman notions with the inherited religion has had the effect not of clearing, but rather of increasing and confusing the vast body of superstitions. In the mythologies of the Indian Archipelago, which have adopted elements from Buddhism and Brahmanism, there appear reminiscences of ancient Phœnician and Babylonish conceptions as well as affinities to those newly learnt from Polynesia. Just

as, even in progressive Java, the old cult of souls and a nature-worship without limits have maintained themselves side by side with relics of Brahmanism and hundreds of thousands of Buddha-worshippers, so do the more refined forms of astrology and necromancy stand with every kind of intervening stage beside crude superstition. The talent for religion which we extolled in the Polynesians is also characteristic of the Malays. Just as in the Archipelago hundreds of

Rainitsontsoraka—a Christian martyr in Madagascar. (After Ellis.)

thousands have become fanatical Mussulmans, so has Madagascar become, through the Hovas, a very stronghold of Christianity in the East; for all the Hovas, to the number of 800,000, have become professed Christians. The fact that the majority are Protestants, and the Catholics numerically weak in comparison, was a main reason of the inefficiency of the first French "protectorate."

Since among the lower races the influence of the priestly class is proportioned to the mass of superstitions, we may decidedly anticipate that the priests will here hold a conspicuous position; even though the endless subdivisions of religion, by allowing no central form of worship and no hierarchy, organised

as a unit, to grow up is outwardly detrimental to their status. The Igorrote seers are usually the boldest and most cunning scamps of their tribe, who utilise their influence for the filling of their own stomachs. The only mark of their profession worn by them in their religious functions is a necklace of alligators' teeth or boa's tusks. Their ceremonies consist of grimaces, dislocations of the joints fit to make your hair stand on end, and mimicry of what they have seen the missionaries do in divine service. Among most of the Dyak tribes they are notoriously immoral. Another bad sort of priests are the people who profess to have come down from heaven. These are men and women of great influence, who have often become politically dangerous, when they have given themselves out as descendants of ancient princely families, and have appealed to the sympathies of the mob.

Among several tribes in Borneo and the Eastward Islands priestesses form a highly developed institution, which has been imported by the Dyaks to the genuine Malays. The Vadians of South-east Borneo, with a presiding Vadian at their head, a dignity which passes by inheritance from the mother to the daughter, represent a purer form than the Blians of the true Dyaks, who are at the same time occasionally loose women. Among the Maanjans any woman is free to become a Vadian, but she has to pay a fee to learn the correct phrases. It is only upon the greater festivals that a special costume is worn ; the head is adorned with a frontlet with tinsel sown upon it, while a sarong fastened across the bosom is held together by a girdle. On forehead, cheeks, nape, breast, calves, and shins, round spots, crosses, and stripes are drawn with rice meal, and two bells in the fashion of amulets adorn the arms. Besides this the younger Vadians wear in their hair the lancet-shaped leaves of a palmetto, supposed to have sprung from the ashes of a deceased member of their body ; at other times their dress is simpler. The form of their conjuration is everywhere alike ; the elements of their action are ecstatic dances, the sacrifice of a fowl, and, where a sick person is to be healed, the extraction, cleansing, and re-insertion of the soul, for all which they are prepared by fumigation with aromatic herbs which are laid under their sleeping-places. In order to reinforce the conjuration in cases of sickness the Vadian in Celebes dances on a narrow plank ; her movements in this are so energetic that any one must wonder at her power, —the sweat falls in great drops from her face, which is contorted in such a way as to portray physical strain and convulsion. These women are considered to be in close relations with the spirit of the earth. Patients suffering from slight disorders are cured in great numbers together. If a disease spreads, general instructions for expiation are given out. In that case no buffalo, goat, horse, or fowl may be killed in a district, no bamboo cut, no tree felled, no fruit gathered or crop harvested, while at last even the penalties are increased for offences which hitherto have been more leniently judged. The worst spirits of all can only be approached at night, and if all means fail one may see standing solitary at the cross roads some candles beside a basket containing rice, *sirih*, and pastry.

In Halmahera children watch beside the meal of dyed rice set for the good spirits, and on board ship a boy watches, having on one side of him the ingenious water-clock and on the other the protecting fetish. Life is filled, fettered, and penetrated with ghosts in such a manner that possession is not very far off ; no epidemic, no sickness, no mishap, takes place without the tongues of men being prophetically set in motion by spirits. On such occasions also the heaven-

descended ones crop up as deceivers, honest or dishonest; a means of averting misfortune is frequently revealed to some elect one in a dream.

No concentration upon special places of worship having taken place, real temples are unknown though sacred places are numerous. Thus among the Macassarese and Bugises the sacred objects of the tribe have a shrine of their own as well as a special sacrificing shrine. In Halmahera, Tidor, and Ternate, the shrine when a sacrifice of food is offered stands near the town hall, and whenever practicable commands the entrance to the village and scares away the evil spirits. In the villages of Sahu there are four spirit-shrines—one for male spirits, one for females, one common to all, and one for the priest's oracular sleep. Every Maanjan keeps curiosities calculated to have a religious effect in a little shrine dedicated to the god of thunder. Sacrificial shrines are erected near large trees and rocks, and at the entrances to caves. Every grave, too, is a place of veneration, especially while it is new; and finally, reverence is extended to whole districts which are imagined to be inhabited by spirits, to dark forests, inaccessible swamps, and certain thickly-wooded hills. Many things again must not be used here if sacred to evil spirits, and not insulted if sacred to the good: they are *pali* or *fadi*—unpermitted. Temples have been erected through Indian influence in the Malay archipelago whose magnificence astounds posterity, but they are to-day forgotten and fallen to ruin. Islam has never reached this point, all it has to show being some poor mosques; these *missigits*, as they are called, are both within and without extremely simple, usually put together of wood. The roofs, thatched with reeds, are sharp, rising here or there three, four, or five feet above one another like towers. Very seldom is a tower or minaret (*meinara*) met with. A drum summons the faithful to prostrate themselves in or out of the temples. Everywhere by the entrances are found large water-pots for the customary washing; and inside the building a niche in a western angle points to the direction of Mecca and of prayer.

Deaths and funerals are the occasions of great solemnities among the Malays; prayers are offered on behalf of the soul which is making ready for the difficult voyage to the next world, or has already got there; but above all, uproarious and long-lasting festivities are celebrated. These have even power to call the soul back; for there is a kind of death which may be made to retreat. Even among the poor Ilongotes, some few provisions for the journey into eternity are laid upon the grave. At a subsequent ceremony, the mourners eat and drink the victuals and palm-wine of the deceased. Among the Battaks, while the other chief epochs of life—birth, maturity, marriage—pass without any very special ceremony, the body of a dead person is the object of particular solicitude. In Holontalo, for forty days after the death of a relative, wealthy persons run daily to strew his grave with money and flowers. The semi-settled Dutch Dyaks announce the moment of the soul's departure from the body by firing a cannon, while the Sulus perform the obsequies to the accompaniment of a grisly show, the relatives having previously lamented for the space of eight days in a hut above the grave. Among the Milanos of Borneo, the friends assemble some months after the death at a mighty feast and cockfight, which lasts three or four days and costs the life of as many hundred cocks. The Alfurs of Halmahera celebrate their funeral feasts for a month or more on end. Many a man is impoverished by them, and has to go abroad to earn money, which he may spend later on at some new festival;

he may then say with justice—"The aim of my life is to perform my *adat*, or customary duties."

Among some natives of Borneo also there are funeral feasts, seven days long, at which men are sacrificed, or, if these cannot be got, buffaloes. Slaves are bought for the purpose, dressed in the clothes of the deceased, and tortured to death. Some wealthy persons, indeed, before their deaths, send some slaves on into the next world. To these festivals belong the *toping*-game of the Battaks, at which one of the players sticks a bottle-gourd with two eyeholes in it over his head, while the other covers himself over with a red cloth, and draws on a four-sided casing of bamboo laths, open at both ends, and reaching from the navel to below the arms. To the player's middle is attached a long movable pole, at the top of which is fastened, with two strings, the head of a hornbill. This he holds in his hand; and behind he has a tail made of old clouts, so that his whole figure suggests a hornbill. The two then play off their jokes among the company, ask for *sirih*, and frighten the ladies. Sometimes one of the *toping*-players ties on a wooden mask with the features of the deceased. In Nias it was usual to make a slave swallow his master's putrefied flesh till he was suffocated; then his head was cut off and he was sent to follow him. At these feasts, buffaloes are tied to a stake wreathed with boughs and flowers, and pierced through the heart with a spear; from the way in which the animal falls the *Gurus* prophesy good or ill-luck to the *kampong*. The Sihongos of Borneo hold feasts for a week, and burn a number of corpses, which are saved up from one feast to the next. As each coffin is put into the fire, the priestesses raise loud lamentations. The ashes are then placed in the family vaults, which stand on poles. Seven days after the feast the concluding ceremony takes place, at which a phallic statue is erected, and the participants smear themselves with the blood of the sacrificed animals.

The Malagasies, too, fear to irritate the souls of the departed, if corpse and grave are not treated with great ceremony. At least a bit of the dead person must be buried as the law directs. The house of the deceased is visited by his friends, and a large part of his oxen slaughtered before it, and used for banquets lasting for weeks. Music and dancing play an important part. The nearest relations sit on the ground, by the deathbed, weeping; while some keep flies and evil influences off with fans adorned with scarlet. The women wear dark garments of coarse material, and dishevelled hair. The corpse is borne to the grave on a bier, accompanied by the mourners, with music and musket-firing. It is usual to inter in a grave pointing north or east. When people die abroad, they are brought home for burial; but if the body cannot be got, a bunch of their hair is buried. Similar customs prevail among the Sakalavas. The corpse is washed and fumigated with *emboki*-wood, thumbs and great toes are tied together with fibres of *rafia*, and the hands laid in the lap; clothes are laid as an additional gift, and the dead man's iron implements are set up on the grave. A curse is further pronounced on whosoever may have caused his death. The grave is marked by a heap of stones, or a single stone, block, or pillar. Persons of importance have graves of large dimensions, made, among the Sakalavas, of sandstone slabs, five yards in length and two in height. Passers-by enlarge the heap by throwing stones on it. Among some tribes the heads of the oxen slaughtered for the funeral carouse are stuck on poles near the grave; while

among the Hovas we find little coloured flags on them. Chiefs are often buried in the middle of their villages. Burial-places are always *fadi;* though in the Hova country we often hear of plundered graves. Descendants like best to be buried near their ancestors. At the anniversary, the Hovas visit the graves in mourning.

Everywhere we recognise the fundamental idea of an interval being reserved in which the soul may rest while preparing for its journey into the next world; as well as that of a return of the soul to the place where its body lies. The modes of burial adopted are based partly on practical considerations, partly on supernatural suggestions received in dreams.

Cremation occurs, but interment is more common. In Sumatra the bodies are laid in a side chamber annexed to the grave; among the Lampongs, the grave is provided with a high cover, upon which a mound is made, and two octagonal pieces of wood erected. In Borneo graves are found rising in steps, with a platform on the top, crowned with a shrine, in which implements belonging to the deceased are placed. Here it is usual to plant a *sirong*-palm beside the grave, while in Halmahera a nosegay is laid at the head and foot. Clouts are hung over the grave for the demon to play with. Interment among the Battaks is different and simpler. Quite little children are buried under the houses; children below the age of puberty are laid away with little ceremony in small coffins, in the family ash or bone-house.

With many tribes the interment is only temporary. After some years, with the view of showing higher respect to their forefathers, they dig up their remains and place them in an above-ground tomb, serving at the same time as monument. This is the older practice, which afterwards was curtailed owing to stinginess or indolence. Adults constantly receive a first funeral above ground. The Alfurs of the east manage this in a simpler fashion than the western Malays. In Ceram they tie up a person when just dead, often when dying, into a bundle like a sheaf, roll him into the forest, and put him away among the branches of trees, with the view of collecting his bones later on. Among them the wish to keep the corpse at a distance is clearly apparent. Among the Alfurs of Minnahassa also, the original practice was to wrap the corpse in bast and keep it among the boughs of the tallest trees; but the custom of burying in ornamented sarcophagi or *tiwukar* is said to have been introduced by another tribe shortly before the arrival of the Europeans. Among the Battaks, on the contrary, the body is wrapped in cloths and furnished with the usual presents, richer tribes placing money on the eyes or mouth, that the soul may be able to buy something for itself on its way. After this the corpse is laid in a rough coffin, usually a clumsy canoe, oars forming a present to be put into the grave. The Maanjans even place beside the body all the objects of value to be found in the house, and the Guinans present a wooden torch for the dark road. They also often sprinkle the corpse with rice, salt, or camphor, and allow the blood of a red cock to drip on it. The Dyaks dye the soles of the feet with turmeric, then the cover is shut up tight, and the coffin is left standing some days amid the lamentations of the priestesses or the old women in the hut, or under a special shed, and food is set every night for the body, which often stays many years above ground. The length of time depends upon the view taken as to the destiny of the soul, as well as upon considerations as to the sum required for the final

ceremony, and also upon the rank of the deceased. Among the Lampongs chiefs are displayed in state on the 3rd, 7th, 40th, 100th, and 1000th day, and then every year, according to the day of death, funeral feasts are held, at which spices, flowers, and other nice things are offered to the dead, and the coco-nut cup with a cooling drink is hung over the coffin. The Alfurs of the Eastern Islands offer the first-fruits of their fishery at burial places. Among the Milanos of Borneo the custom is found of burying the coffin for three days with weapons, *sirih*-boxes, bronze cannons, money, and clothes, during which time the dead man equips himself for his journey. But here, too, at least so much of a chief's body as remains after the process of decay is placed in an urn and put away in a hollow post of iron-wood beautifully carved; since the wood of these monuments is almost indestructible, they date from generations back. Sometimes the above-ground tomb takes the shape of a boat, as in the illustration on p. 63. Many of the Battaks take little care of what remains after cremation. Ashes and earth are swept up together and put into a round wooden receptacle which is buried in the forest and little more trouble taken with it, only the spot is kept tidy.

Among the Sihongos of Borneo there is another practice connected with the preservation of the body which we meet with also in Madagascar. The coffin is put on a stage and a hole bored in the body, into which is cemented a bamboo with its lower end in the orifice of a large earthen pot. Into this all the fluid portions of the body as it decays are collected; on the forty-ninth day the pot is removed with great clamour. The practice of drinking the contents, under the notion that the soul resides in them, has survived only in traces; pot and coffin are firmly cemented up, and remain in the house till the funeral feast.

The period between the decease and the final disposal of the body which is to give rest to the perturbed soul, is regarded as critical in every Malay village. From the moment at which a shot, or muffled drum taps following at regular intervals, announce a death, a village is unclean. At first the times of day are in some degree inverted. Starting from the notion that the souls of the dead, especially those who have departed suddenly or owing to a misfortune, love to do mischief until the funeral feast is held and that the night is their day, everybody who wants to leave the village must do so before sunrise; if he goes later he may speak to no one—everybody avoids him. The women veil their faces and intone the death dirge; the death is regarded as a loss for the whole village, showing plainly the intimate connection of the tribe. For this reason, also, great importance is laid upon the death taking place in the village, and under all circumstances the body must be brought thither, and if this is not possible, the clothing.

External signs of mourning are shaven heads, white turbans among the Mussulmans of the Sulu Islands, the veiling of the head in the case of the mourning women. Among the Maanjans the relatives must eat no rice for forty-nine days —seven only if the mourning is for a child—but they must content themselves with a grain of brown colour and unpleasant taste and smell. Names of dead people are never to be uttered. Among certain tribes, too, even living people never utter their own names, it is *fadi*, and if anybody inquires it, the reply is given by some other than the person asked. It is quite a trait in the character

of the Hovas that they anxiously endeavour to avoid thinking of departed persons.

Human sacrifices were no doubt once universally connected with funerals. Among the Milanos a slave was starved to death in the most cruel manner, attached to the post of the sepulchre, in order that he might be all ready to attend his master in the next world. At the *toping*-play of the Battaks in former times, two slaves used to come on as performers when the coffin was already standing at the grave; in the midst of their buffooneries they were killed, their corpses laid at the head and foot of the grave, and the coffin placed on the top of them. Hagen even connects cannibalism with these rites; the greatest insult was offered to a person guilty of grievous crime, or to a mortally hated foe, by annihilating his body in the most thorough and dishonouring manner possible, which would be by devouring him. Doubtless, also, fear of the restless spirit of the slain may have made the practice universal, so that by eating in common all might be bound together as accessories.

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